

Aydogan Ozcan et al.  
Appl. No.: Unknown Atty Docket: STANF.131CP2

Appl. No.: Unknown      Atty Docket: STANF.131CP2

A schematic diagram of a measurement setup. It features a rectangular base plate (1) with a circular disk (3) mounted on its surface. A second rectangular plate (2) is positioned above the disk. A circular component (4) is located between the two plates, directly under the disk. A wire (5) connects the base plate to a circular meter with a needle. The meter is connected to the base plate at one point and to the circular component (4) at another.

The diagram illustrates a magnetic structure and its corresponding second-order susceptibility profile. On the right, a 3D perspective view shows a rectangular block with a wavy top surface. A portion of the top surface is shaded with diagonal lines and labeled with the reference numeral 10. To the left of the block, a graph plots 'SECOND-ORDER SUSCEPTIBILITY' on the vertical axis against a horizontal axis. A curve, labeled with the reference numeral 15, represents the susceptibility profile. The curve starts at a high value on the left, drops sharply, and then exhibits a small local maximum before leveling off. A vertical arrow labeled 'Z' points downwards, indicating the direction of the magnetic field or the coordinate axis for the profile.

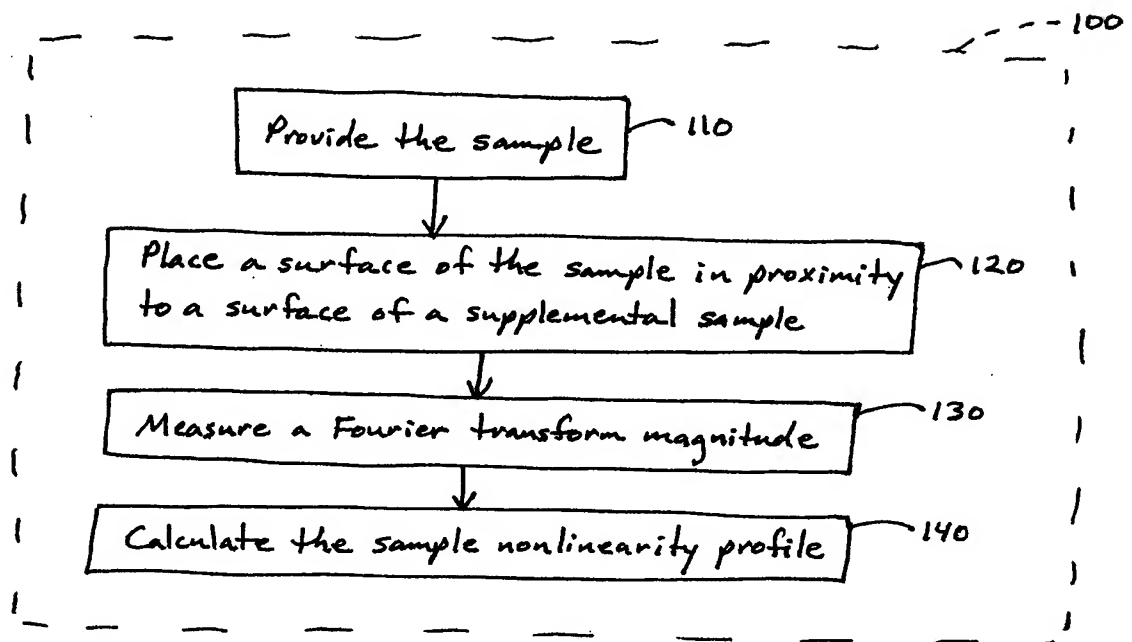
METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

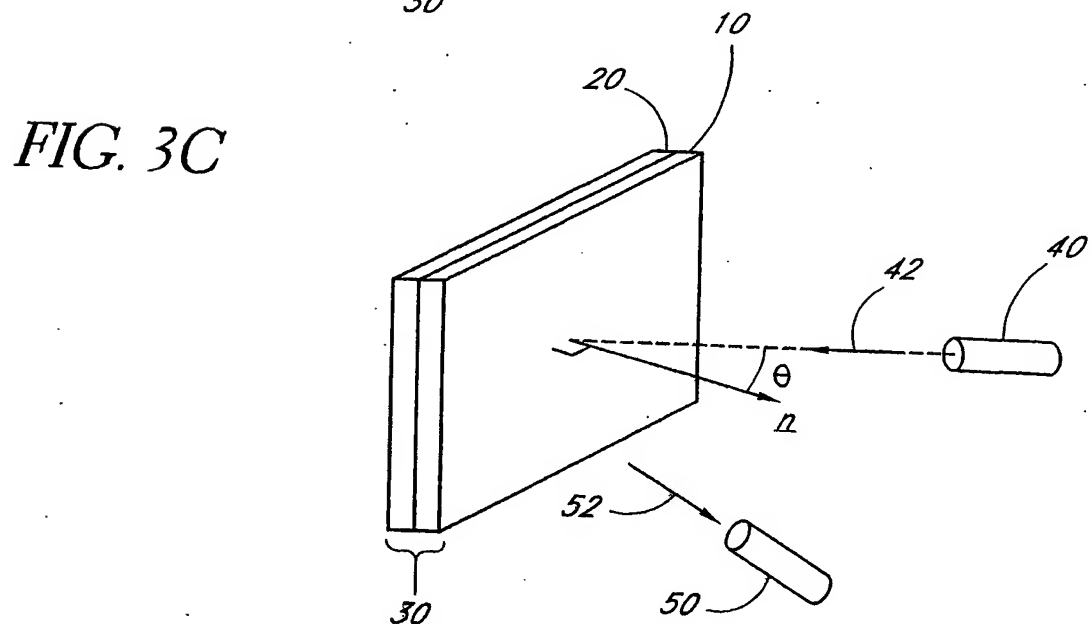
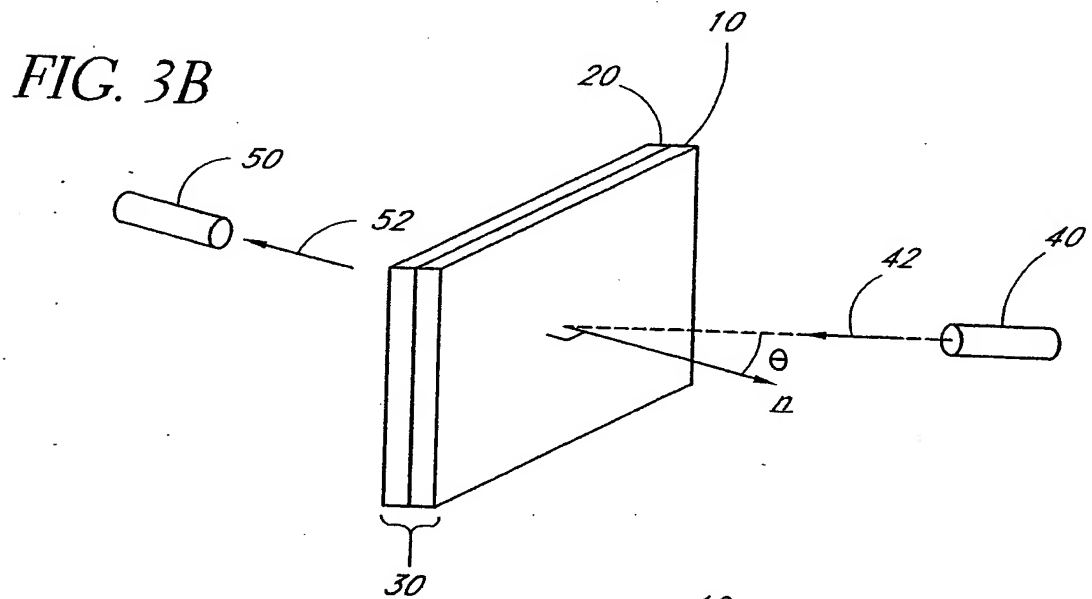
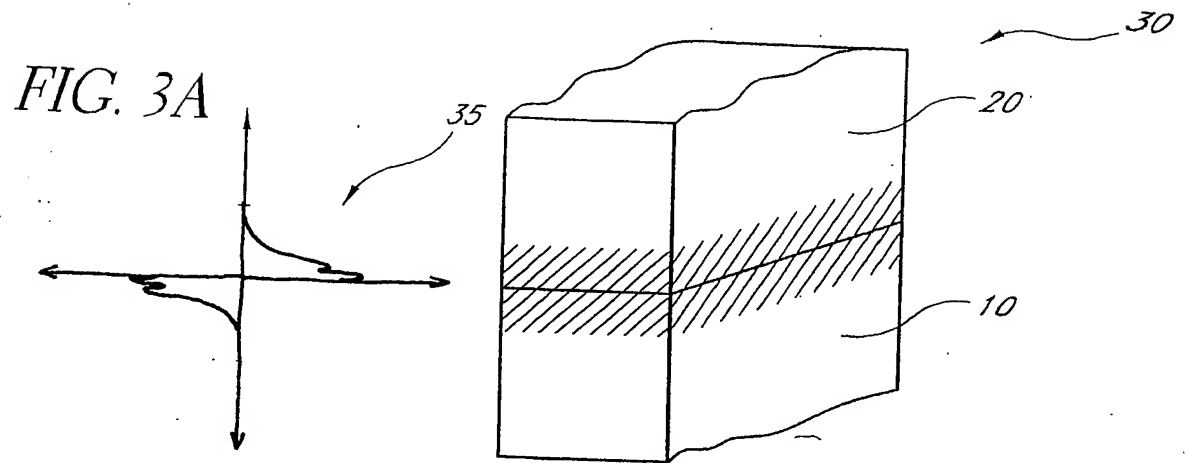
Figure 2:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

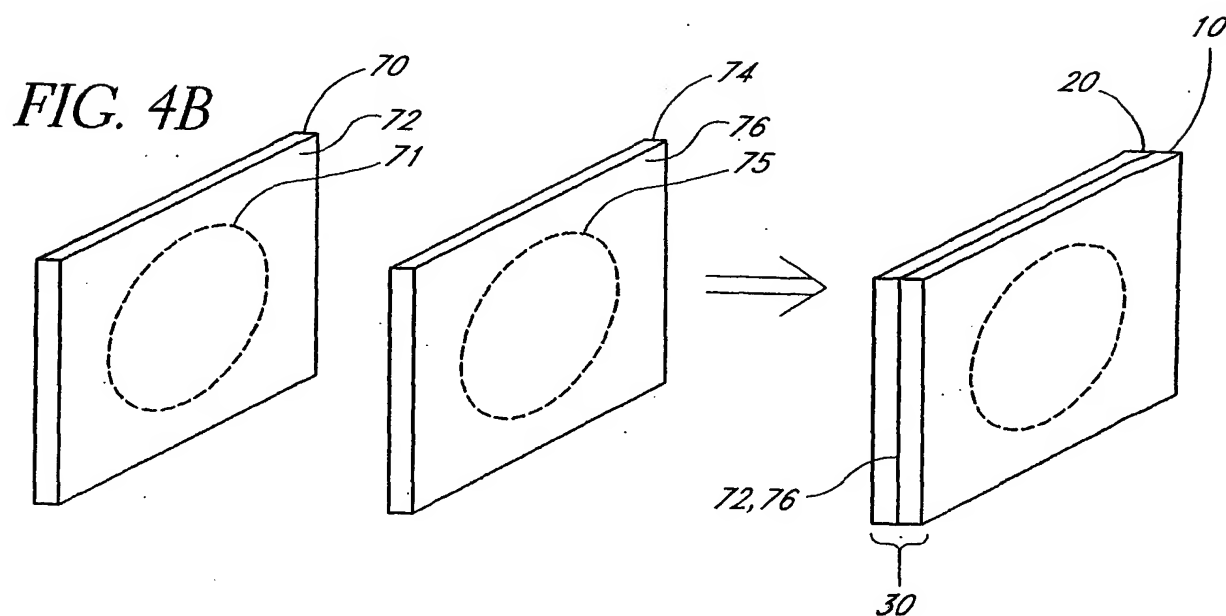
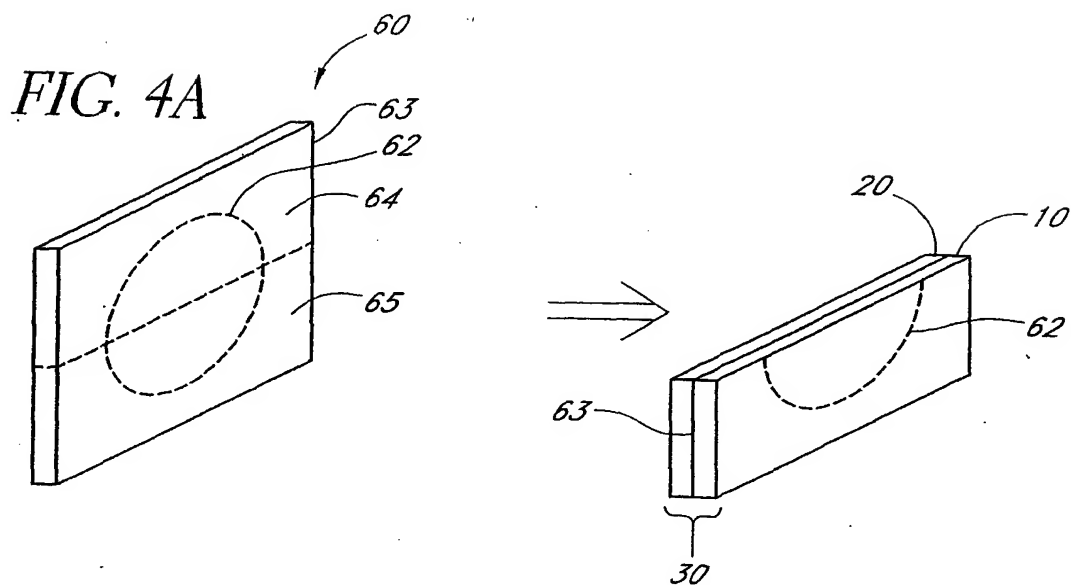


METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

FIG. 4C

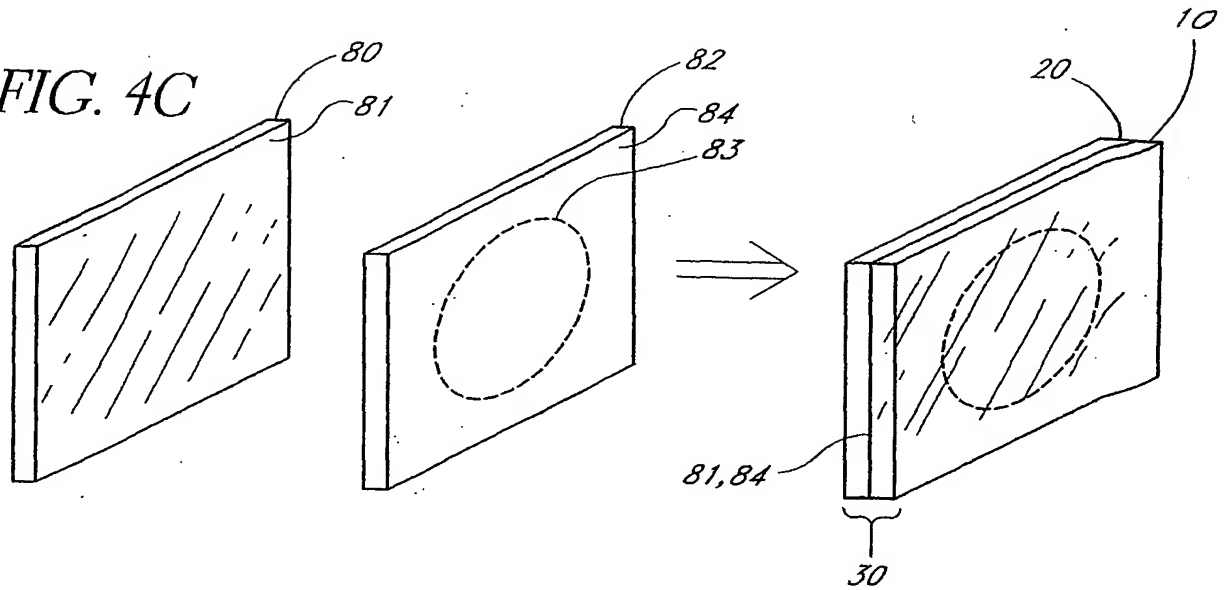
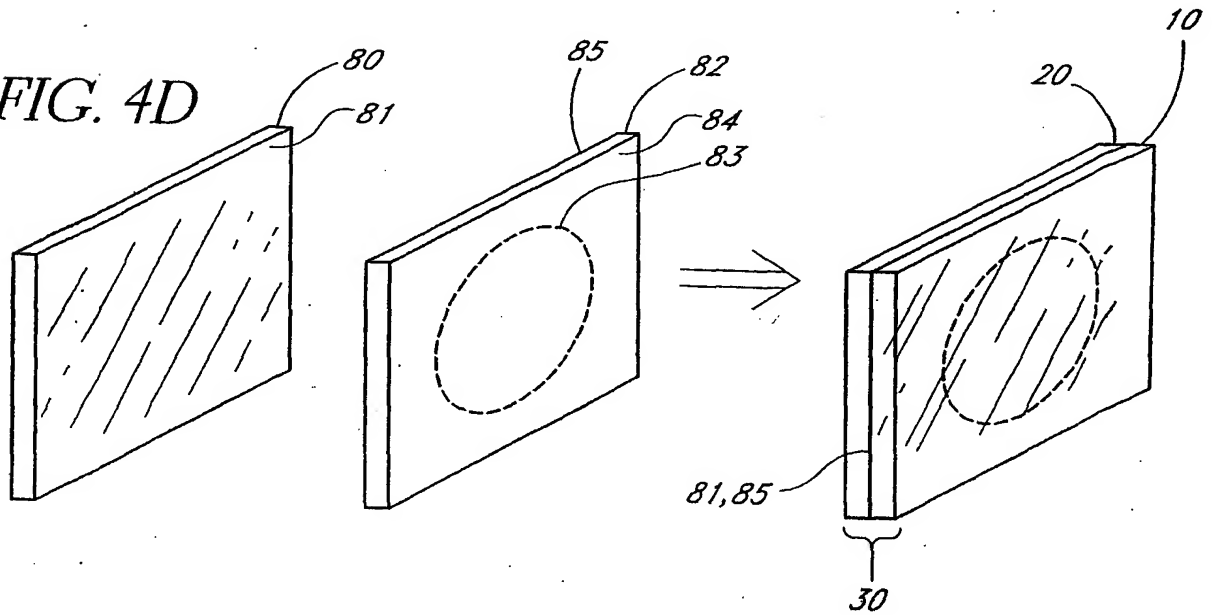


FIG. 4D

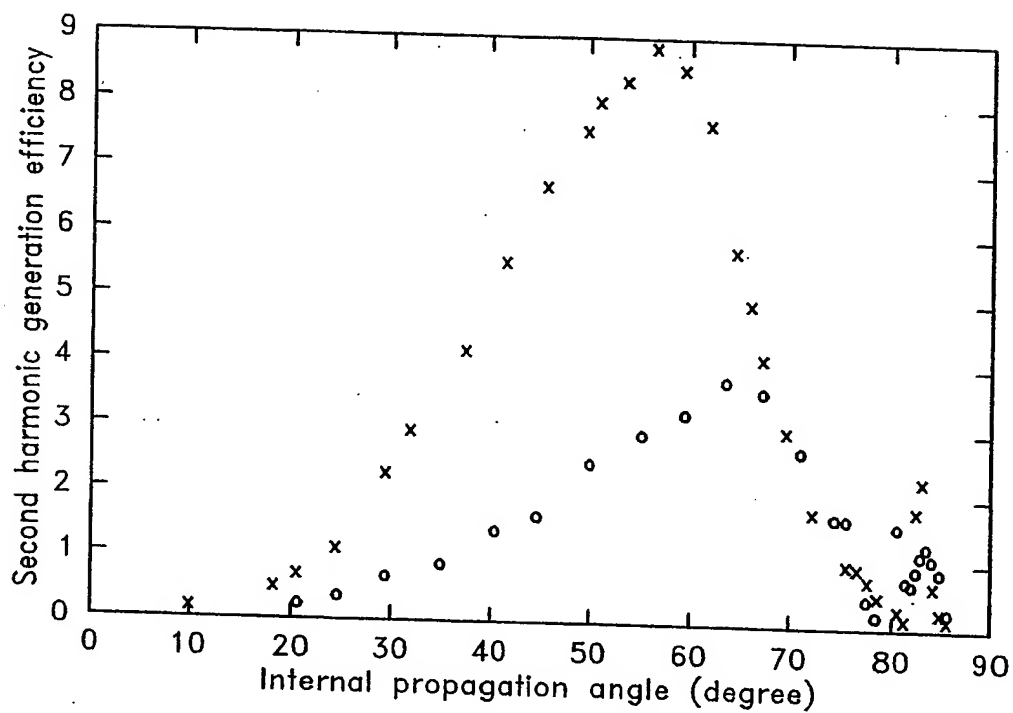


METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

FIG. 5



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 6:

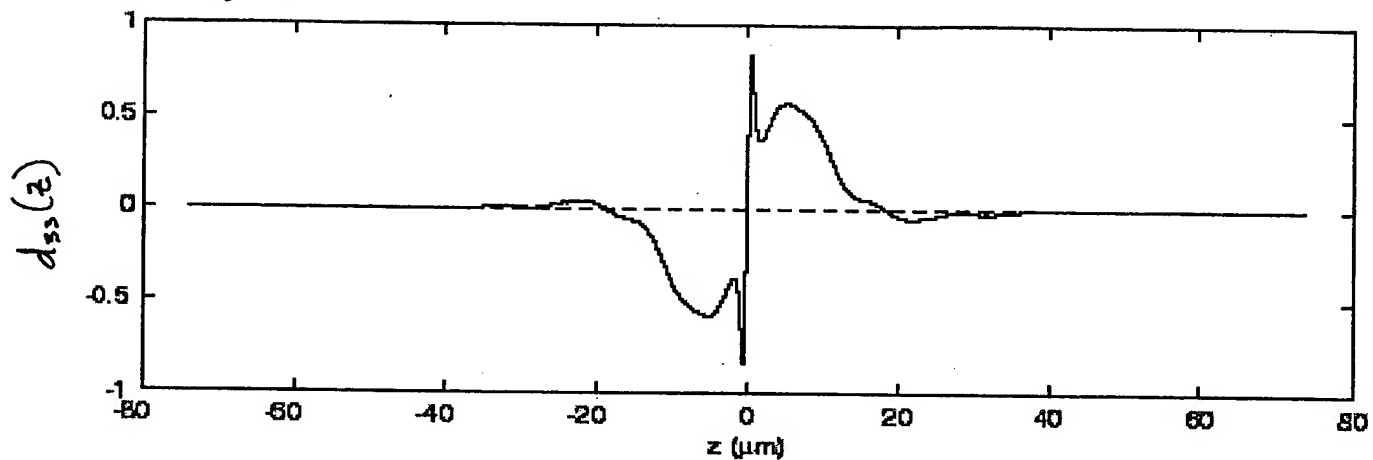
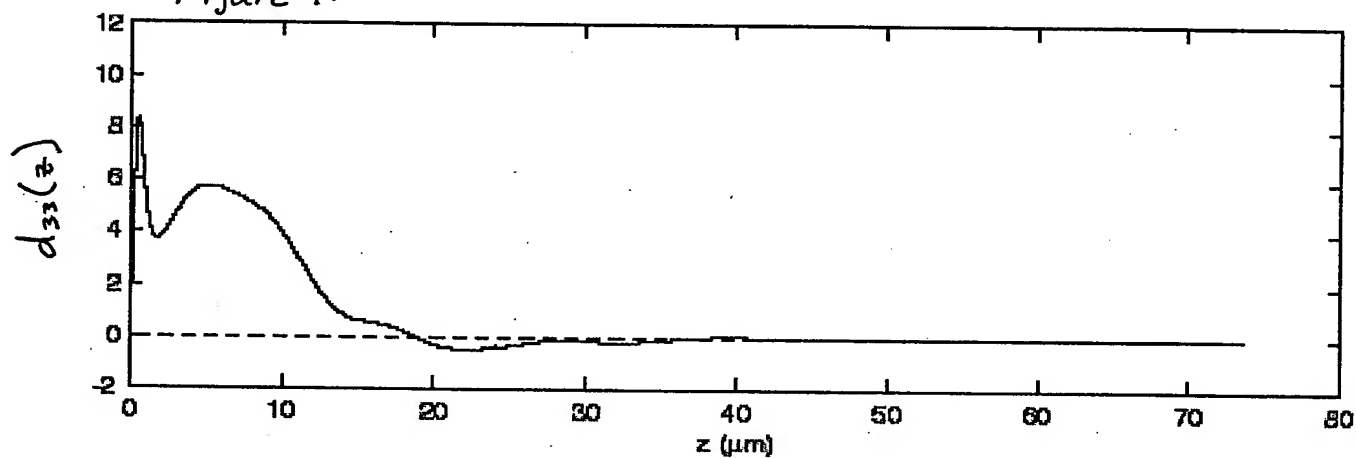


Figure 7:

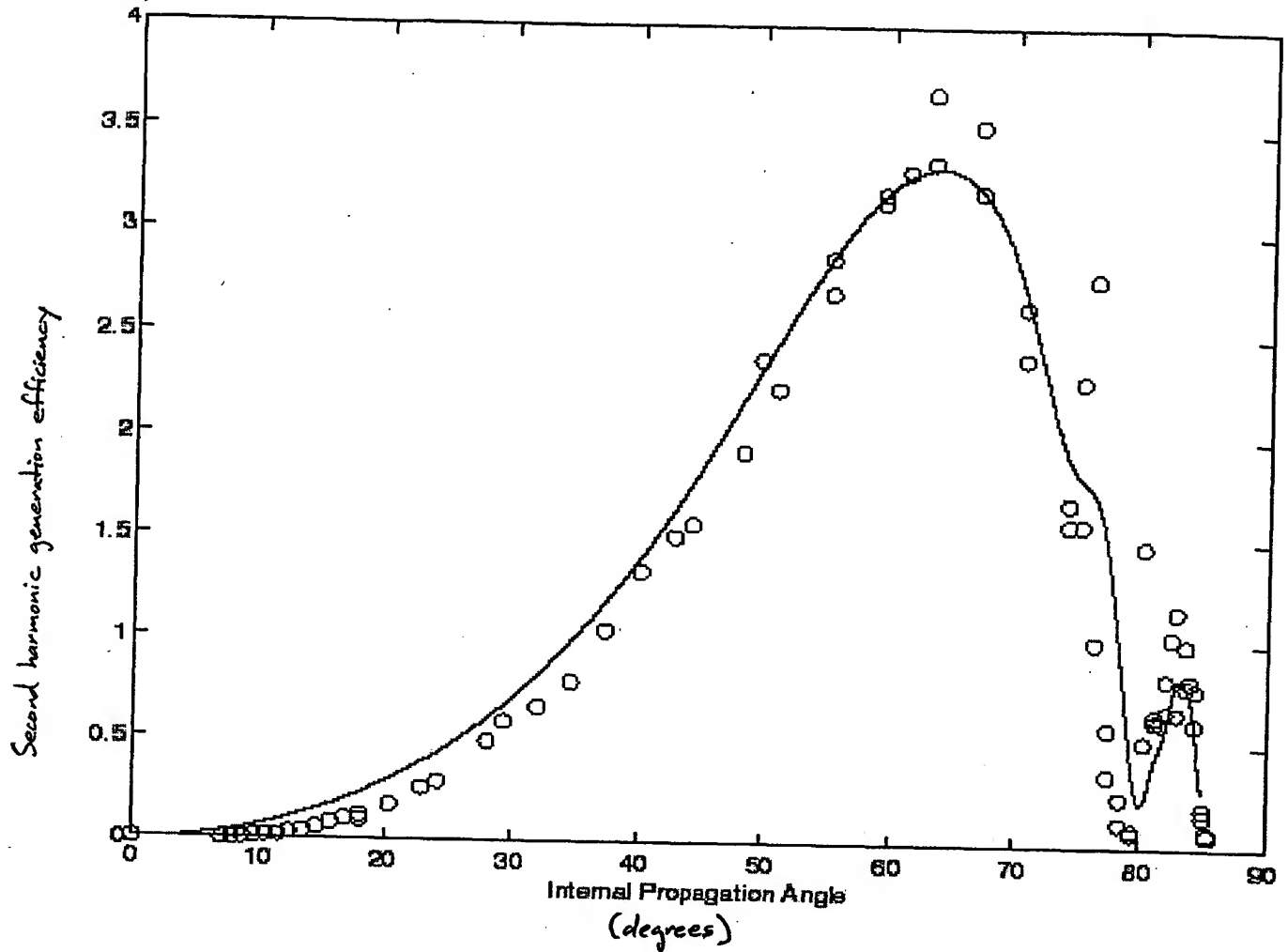


METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 8:



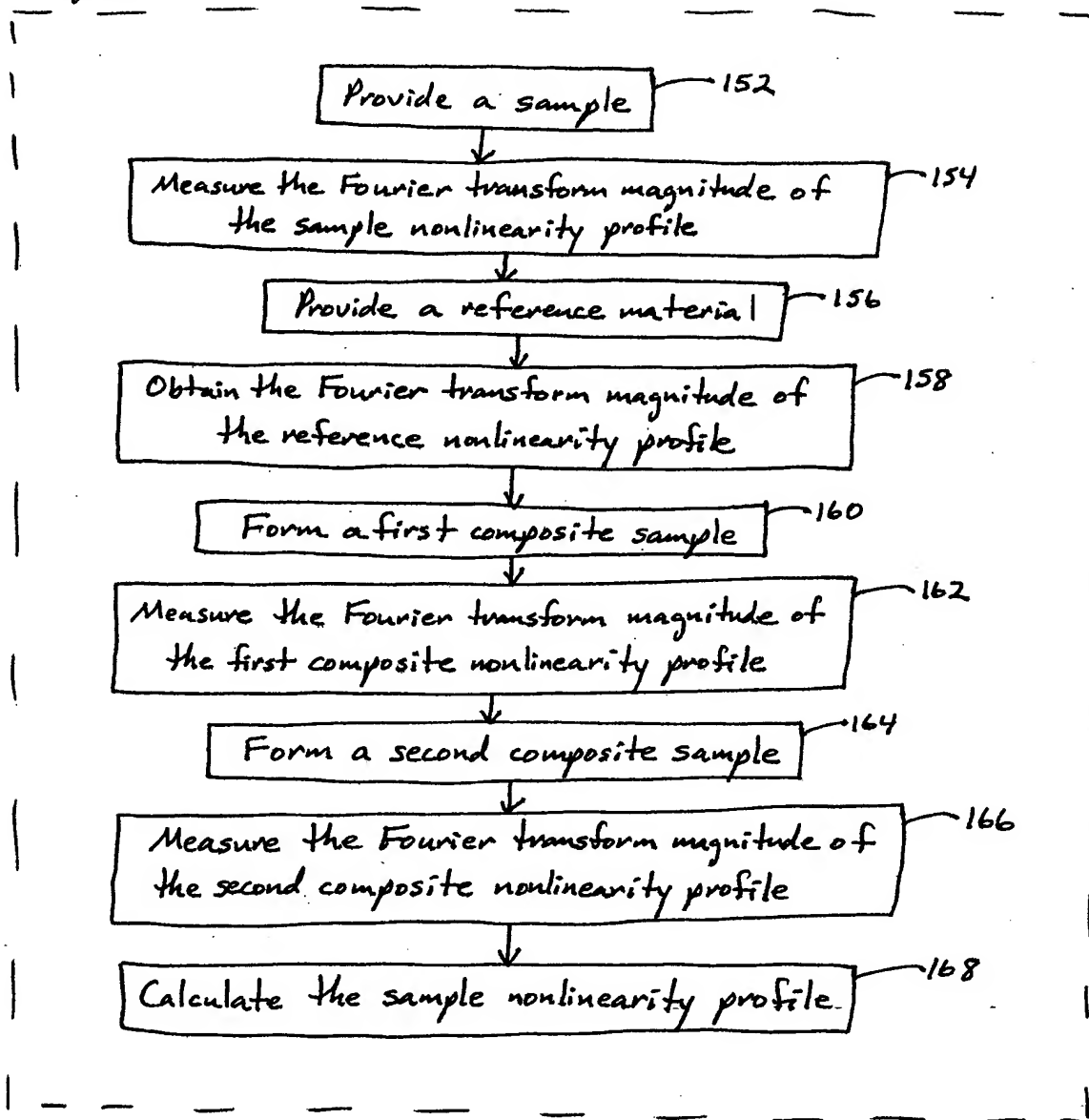


METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 9:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

Figure 10A:

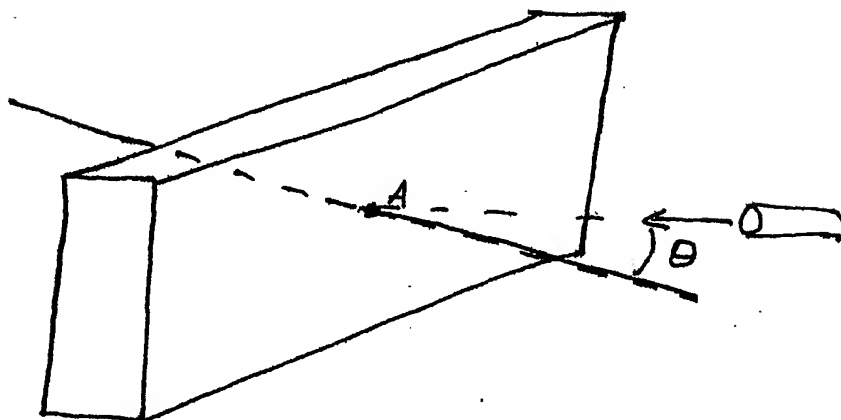
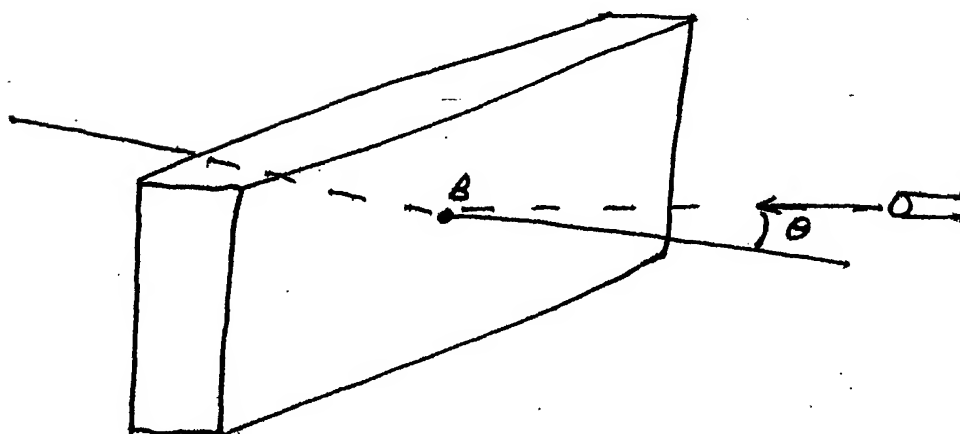


Figure 10B:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 11A:

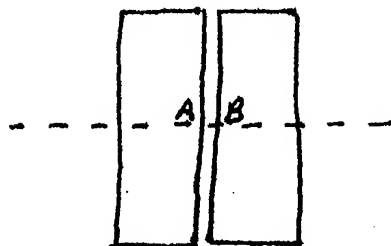


Figure 11B:

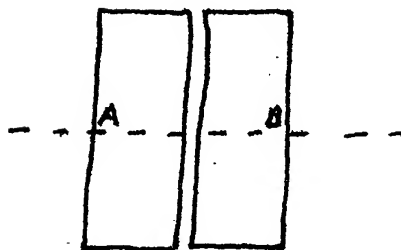


Figure 11C:

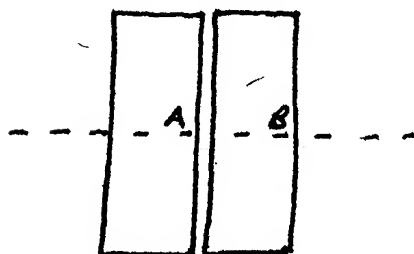
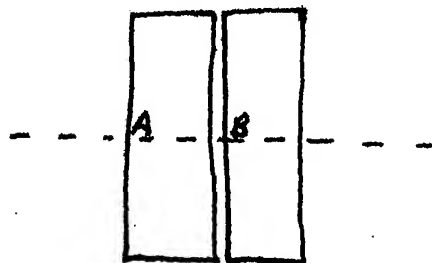


Figure 11D:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

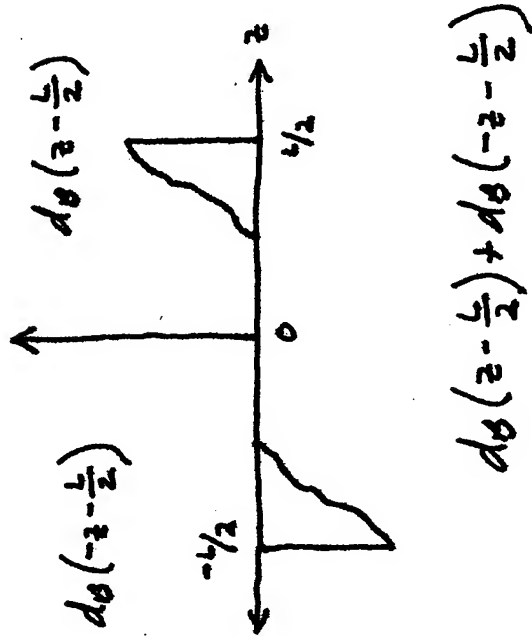


Figure 12B

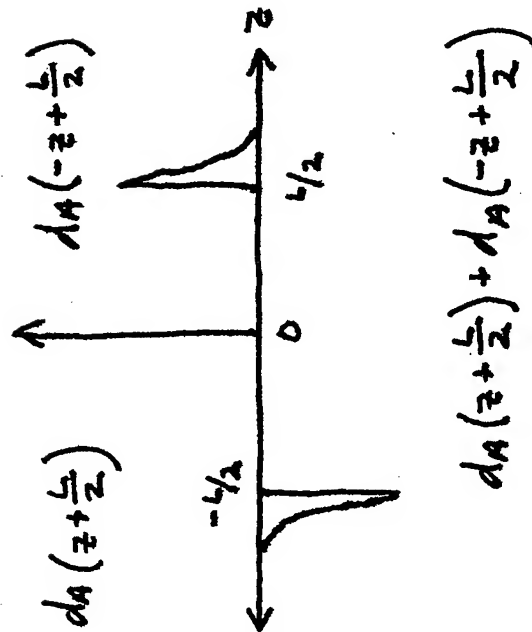
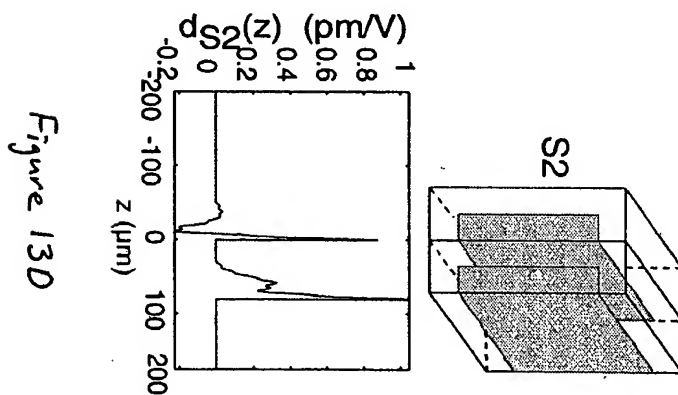
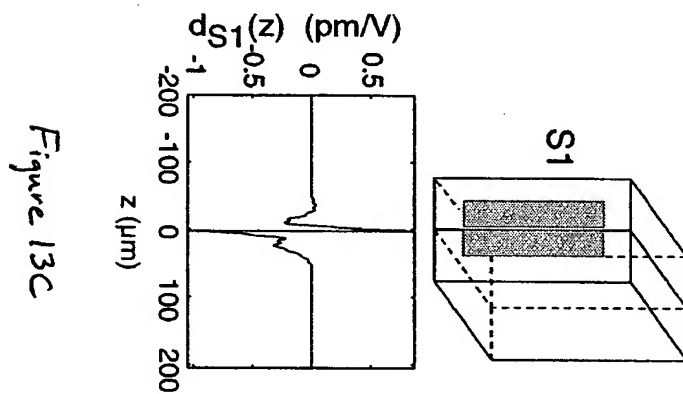
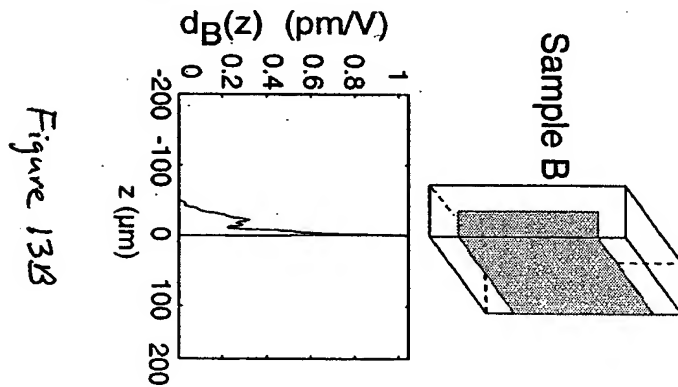
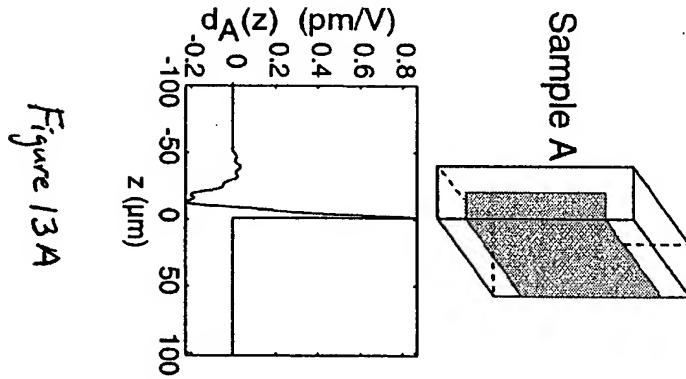


Figure 12A

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION  
Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

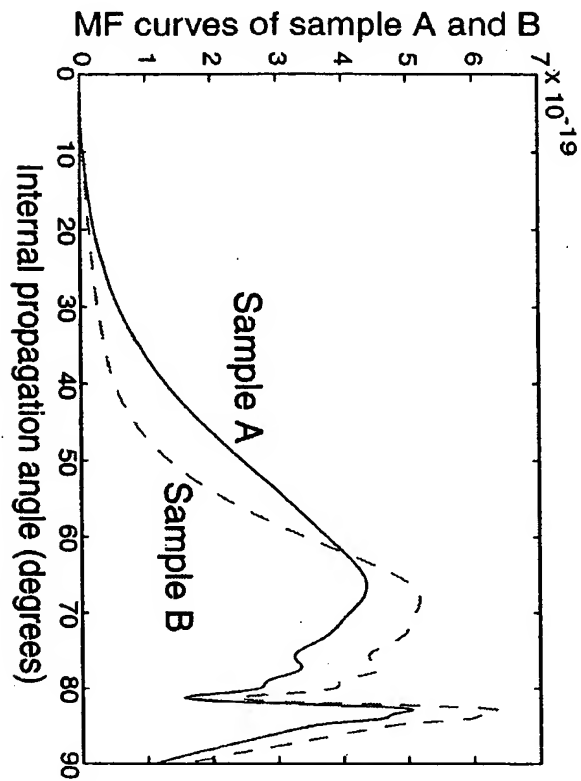


Figure 14A

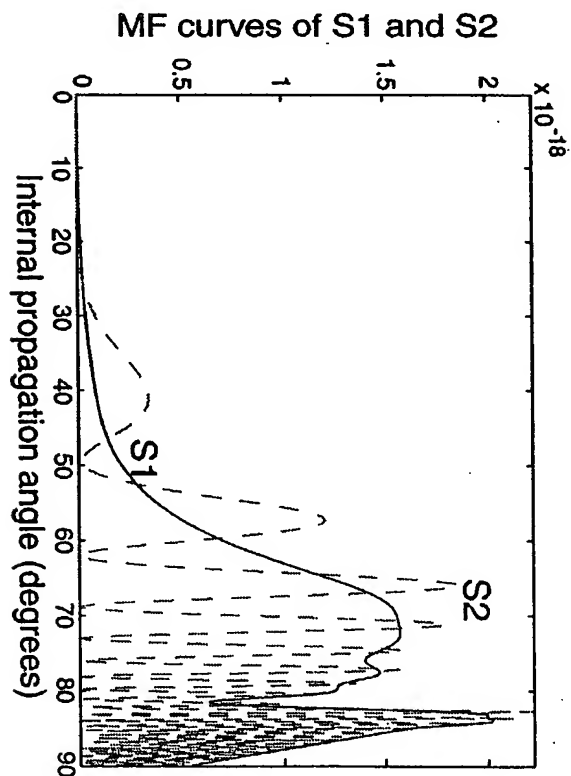


Figure 14B

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown      Atty Docket: STANF.131CP2

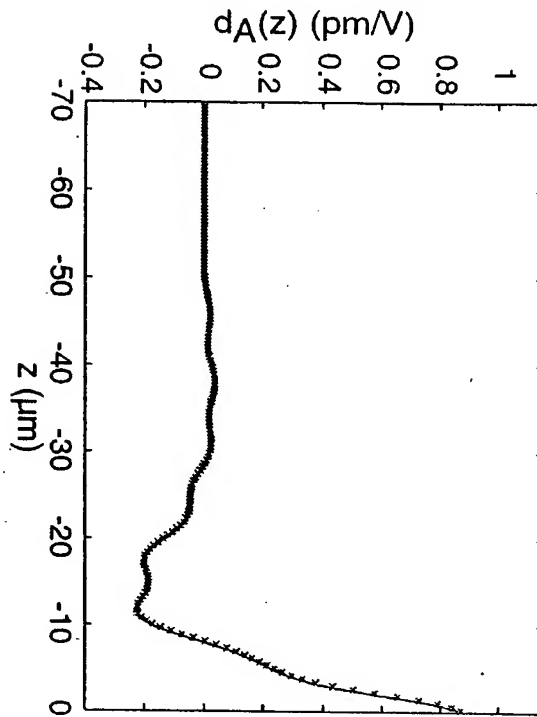


Figure 15A

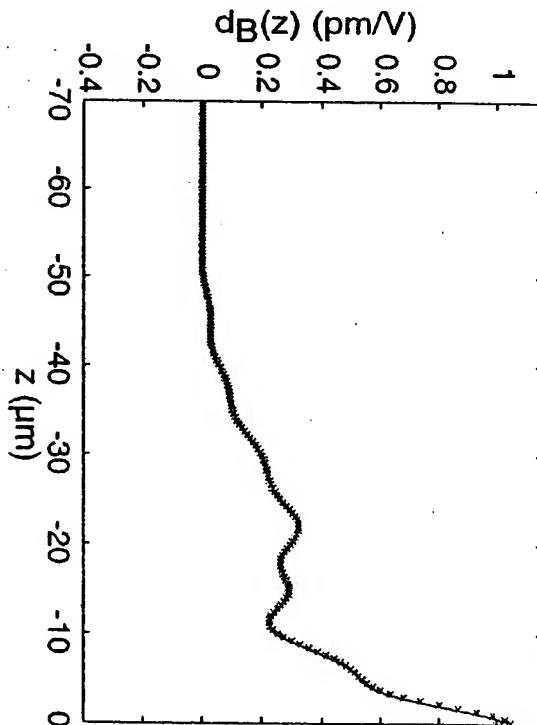


Figure 15B

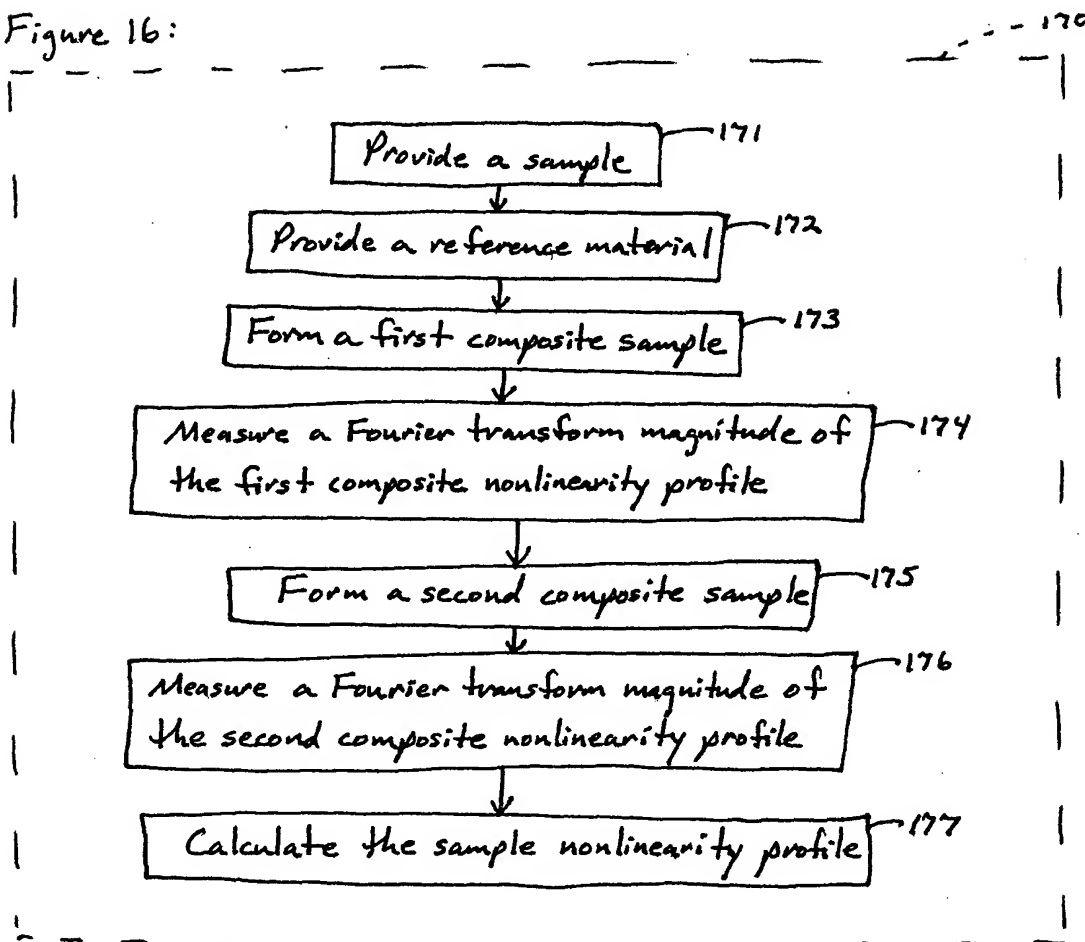
METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

Figure 16:





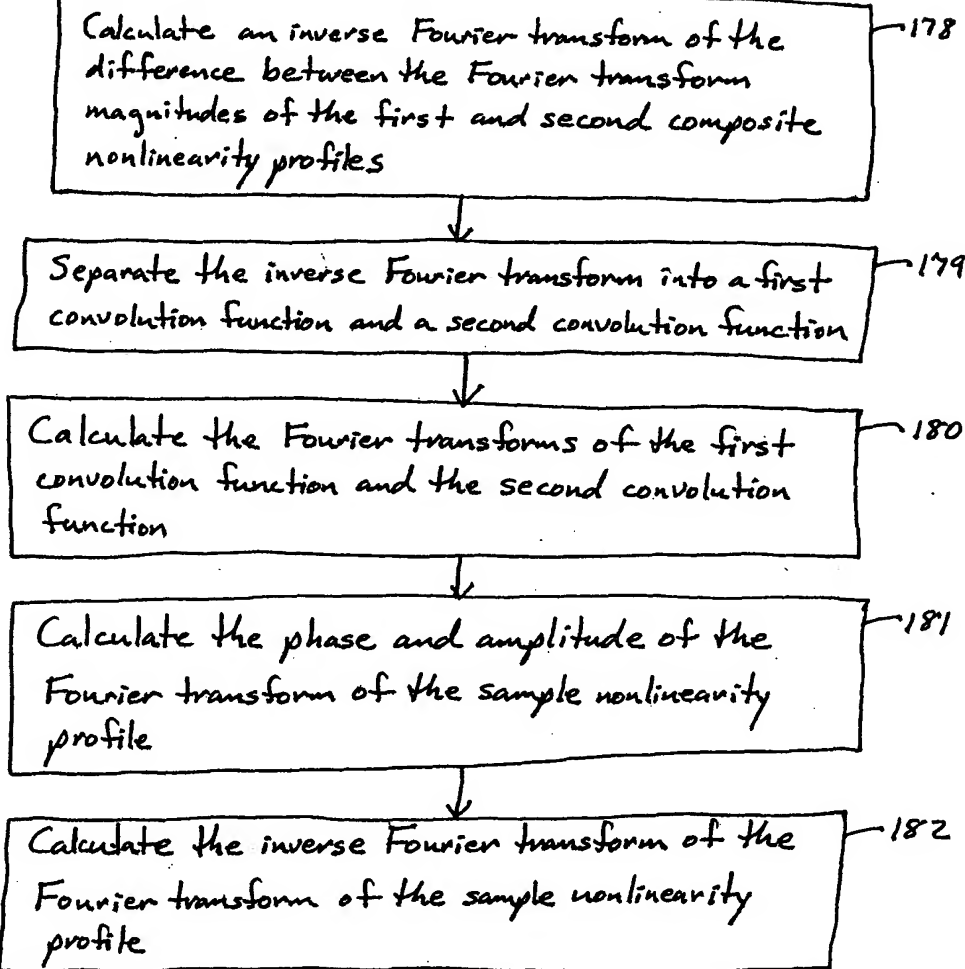
METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

Figure 17:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 18A:

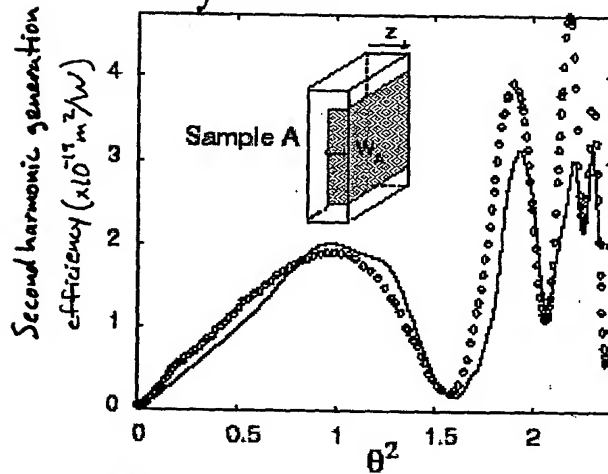


Figure 18B:

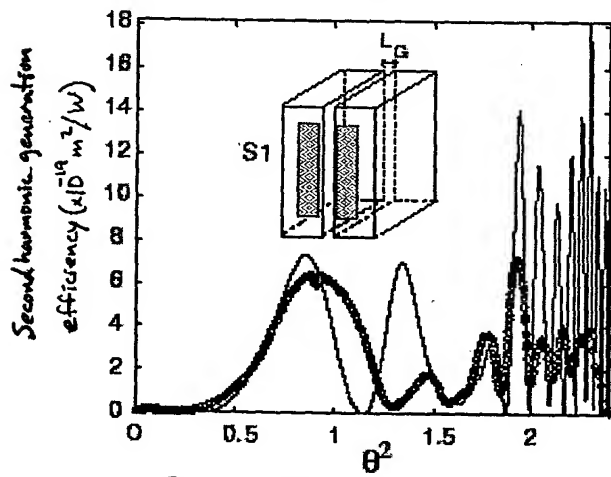
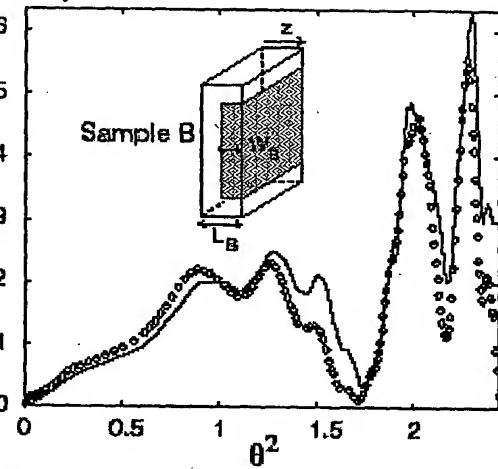


Figure 18C

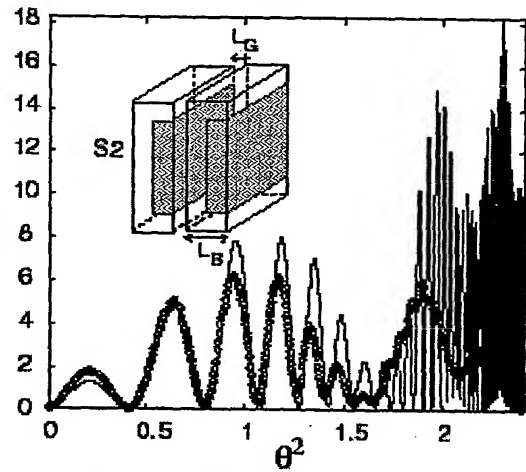


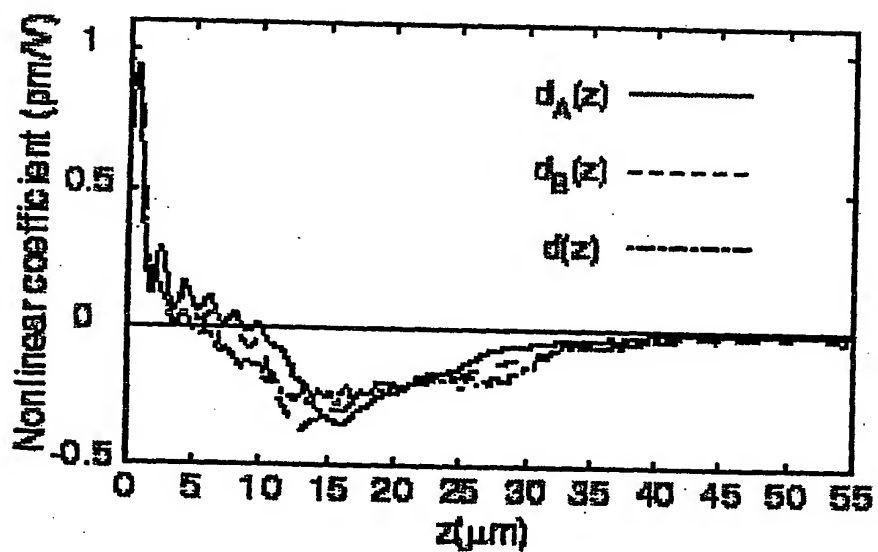
Figure 18D

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 19:



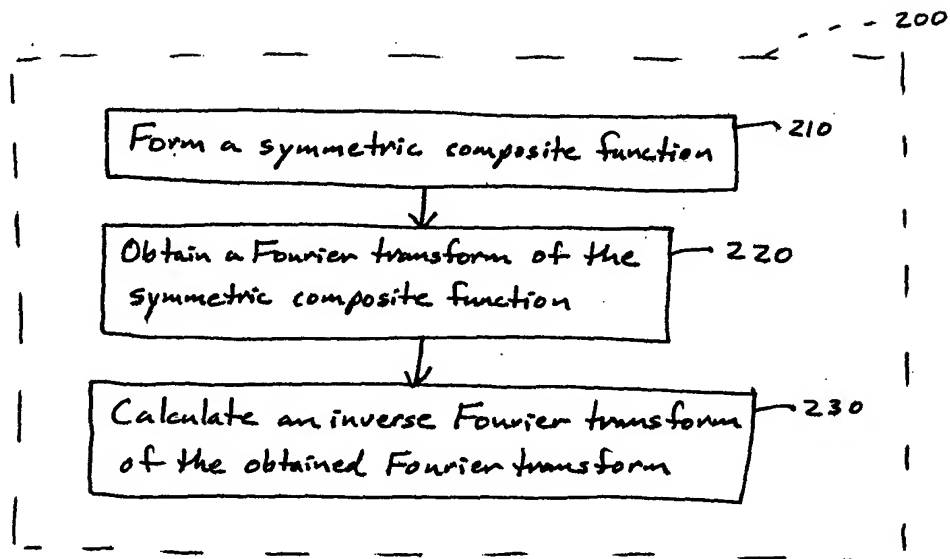
METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

Figure 20:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

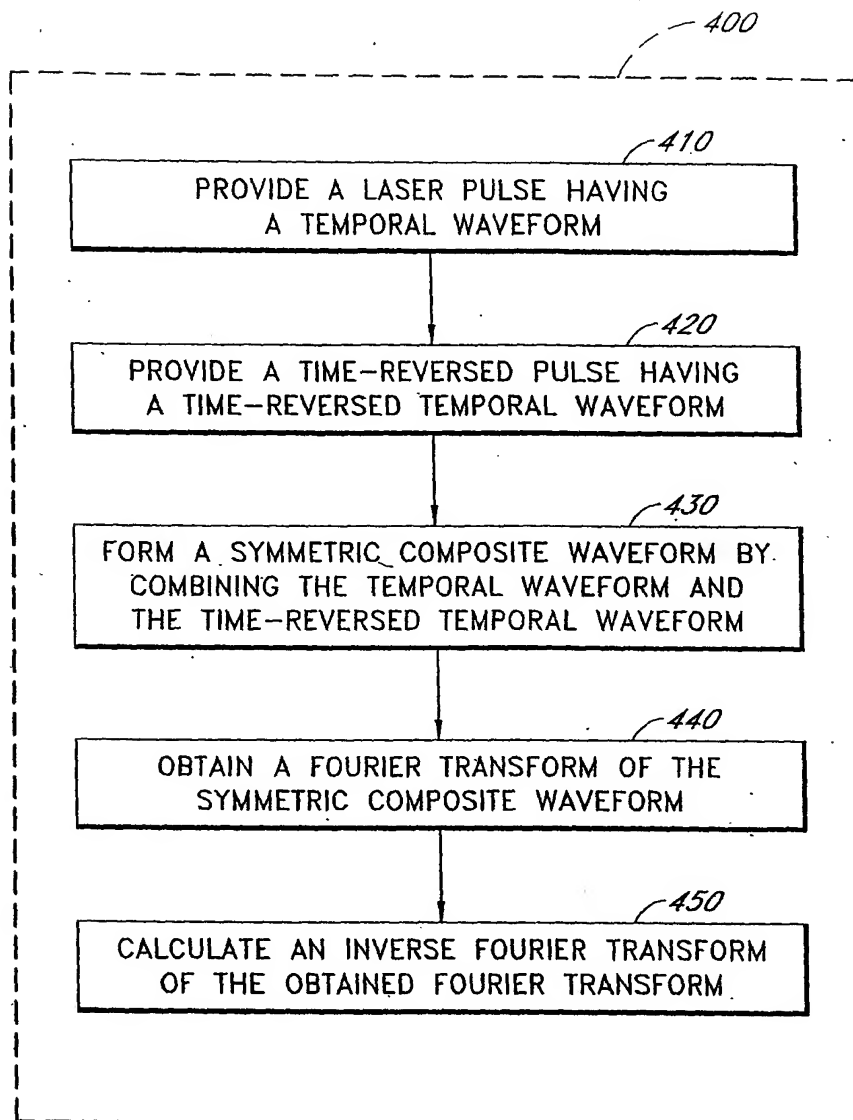


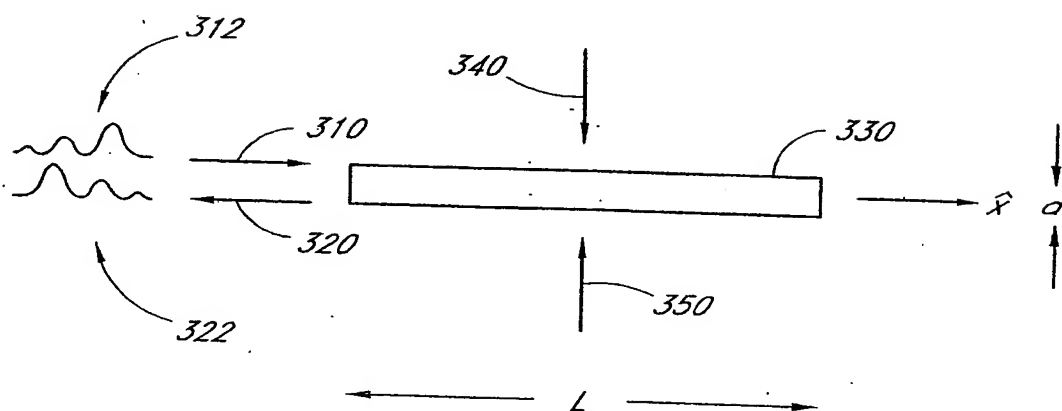
Figure 21

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 22:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 23A:

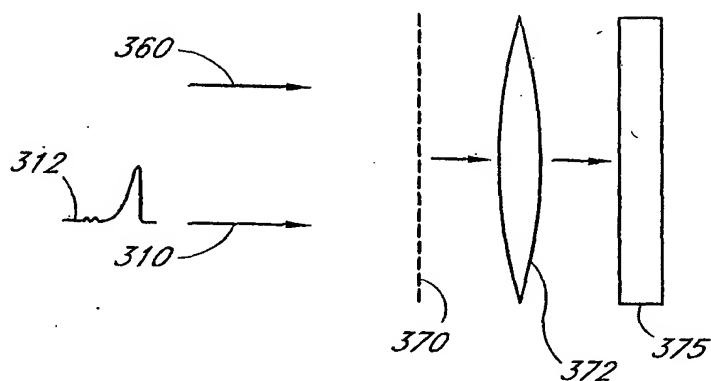
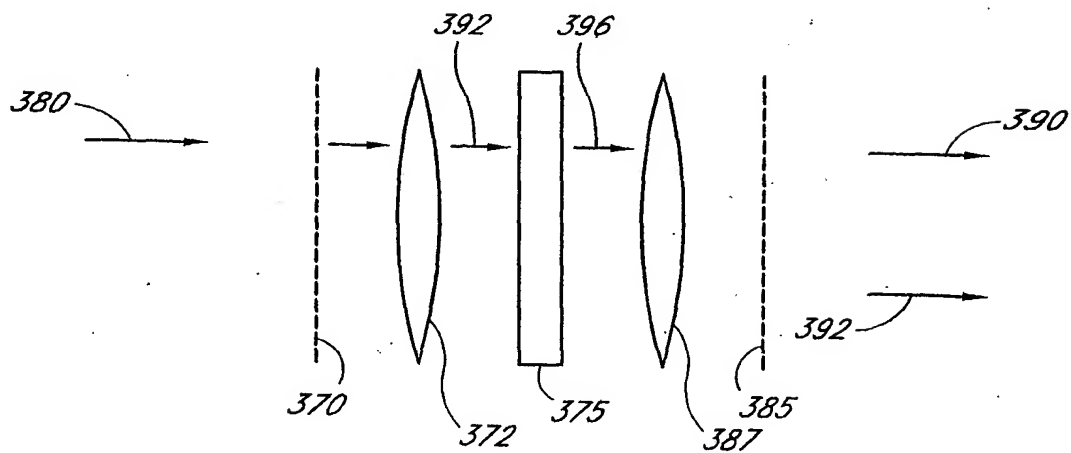


Figure 23B:

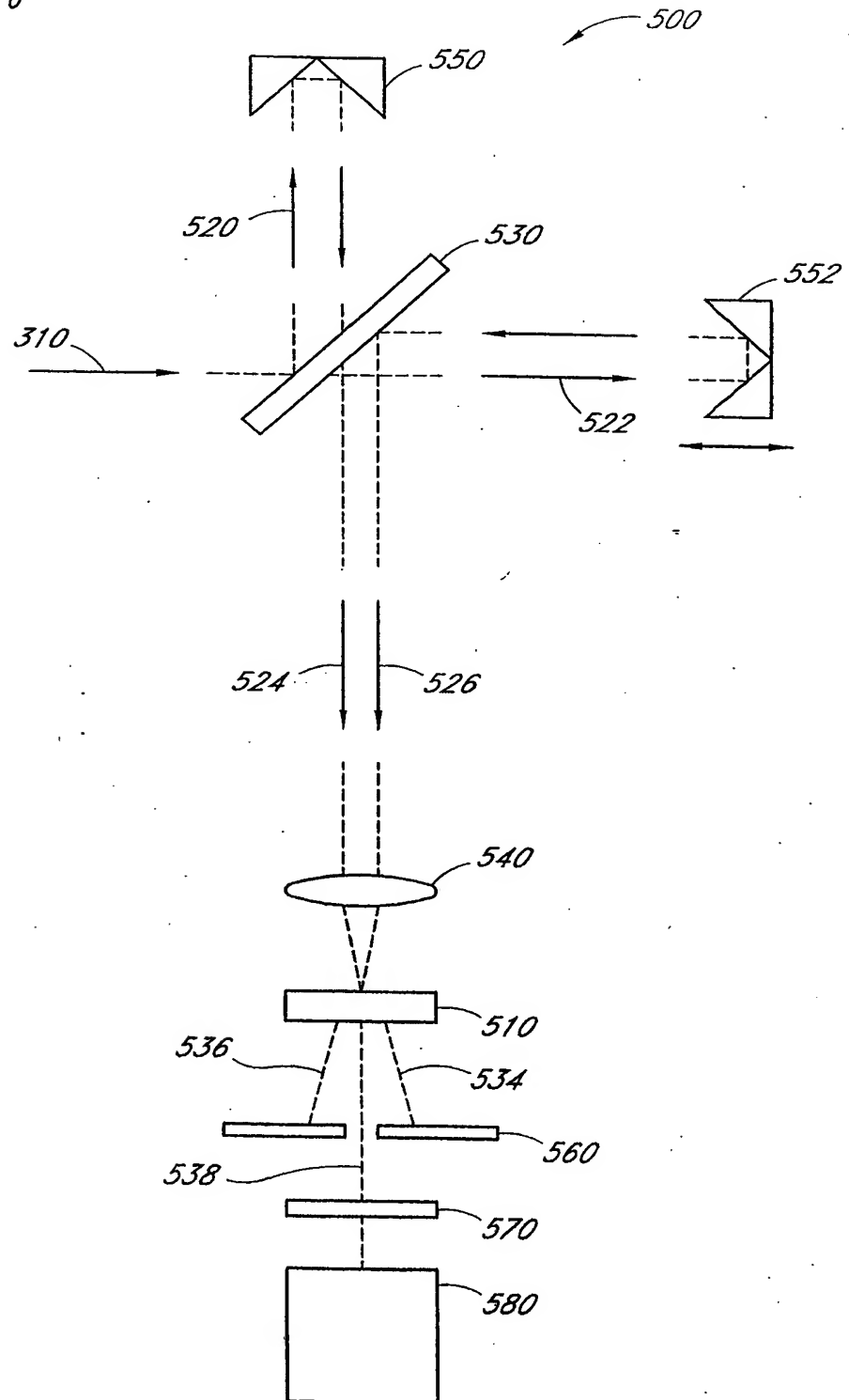


METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 24:



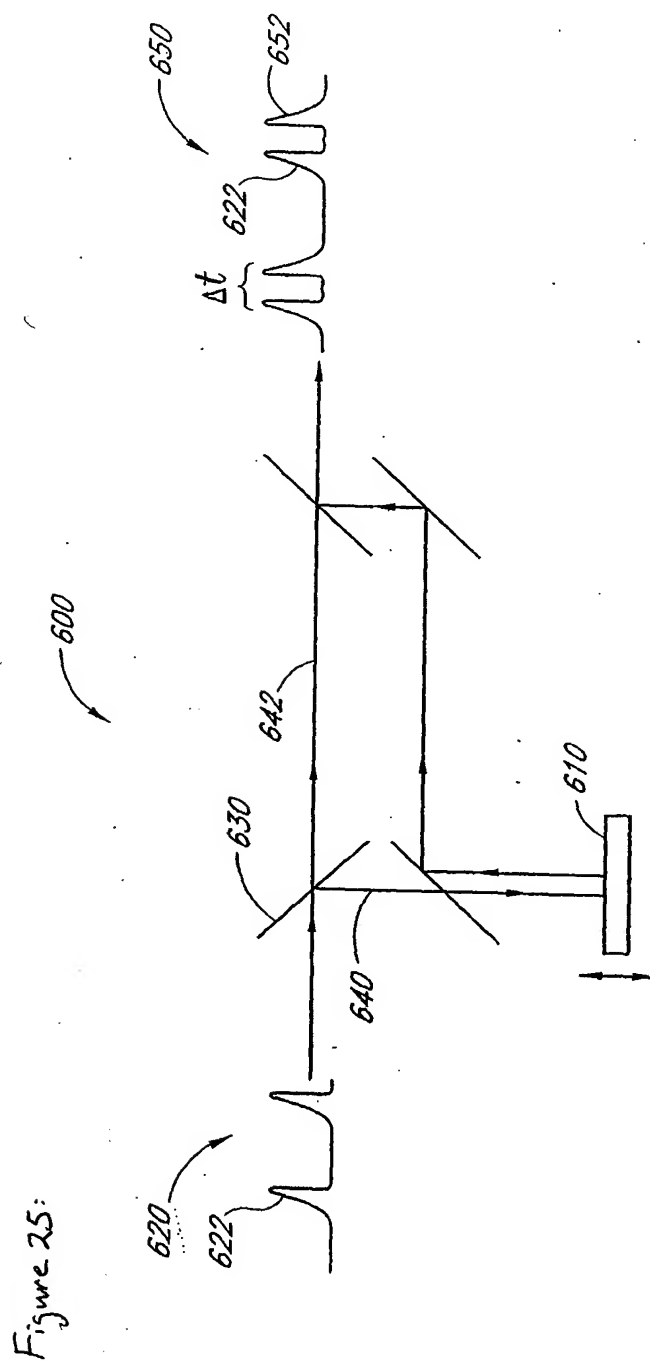


# METHOD OF MEASURING A PHYSICAL FUNCTION USING A COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

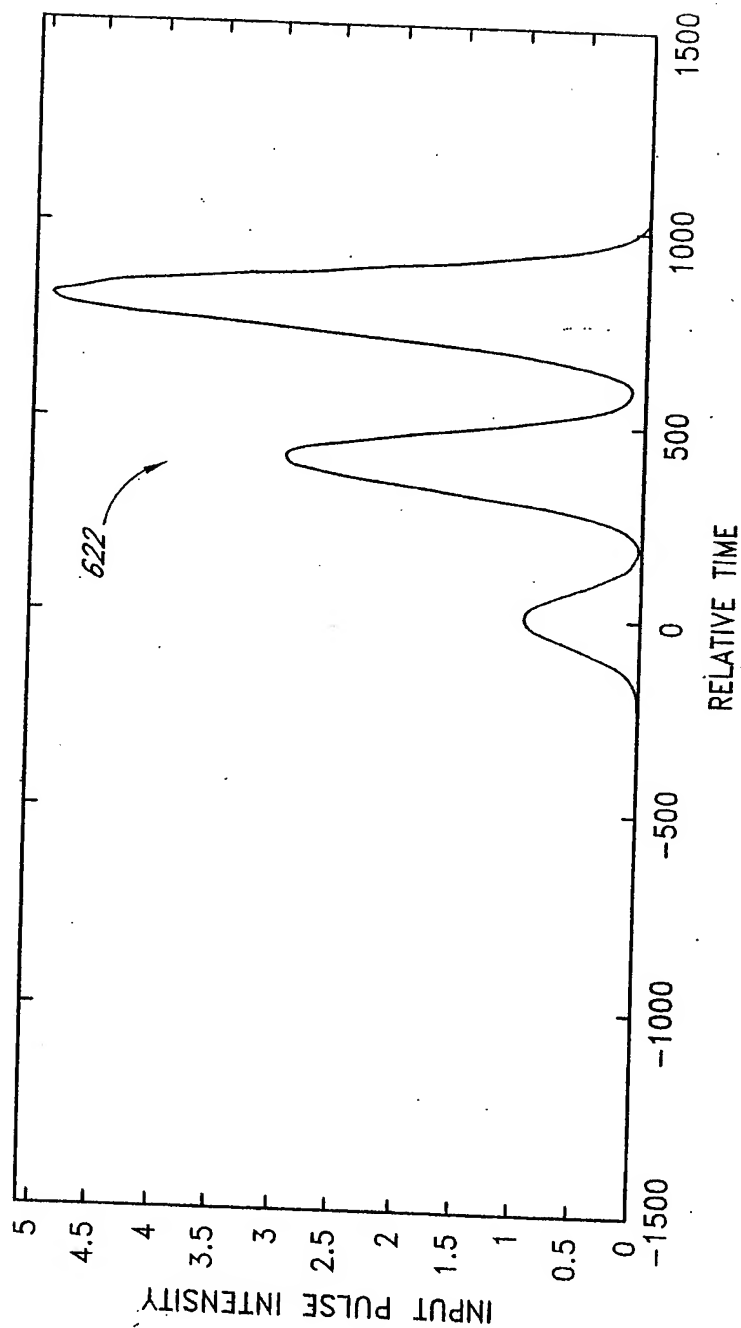


METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 26:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

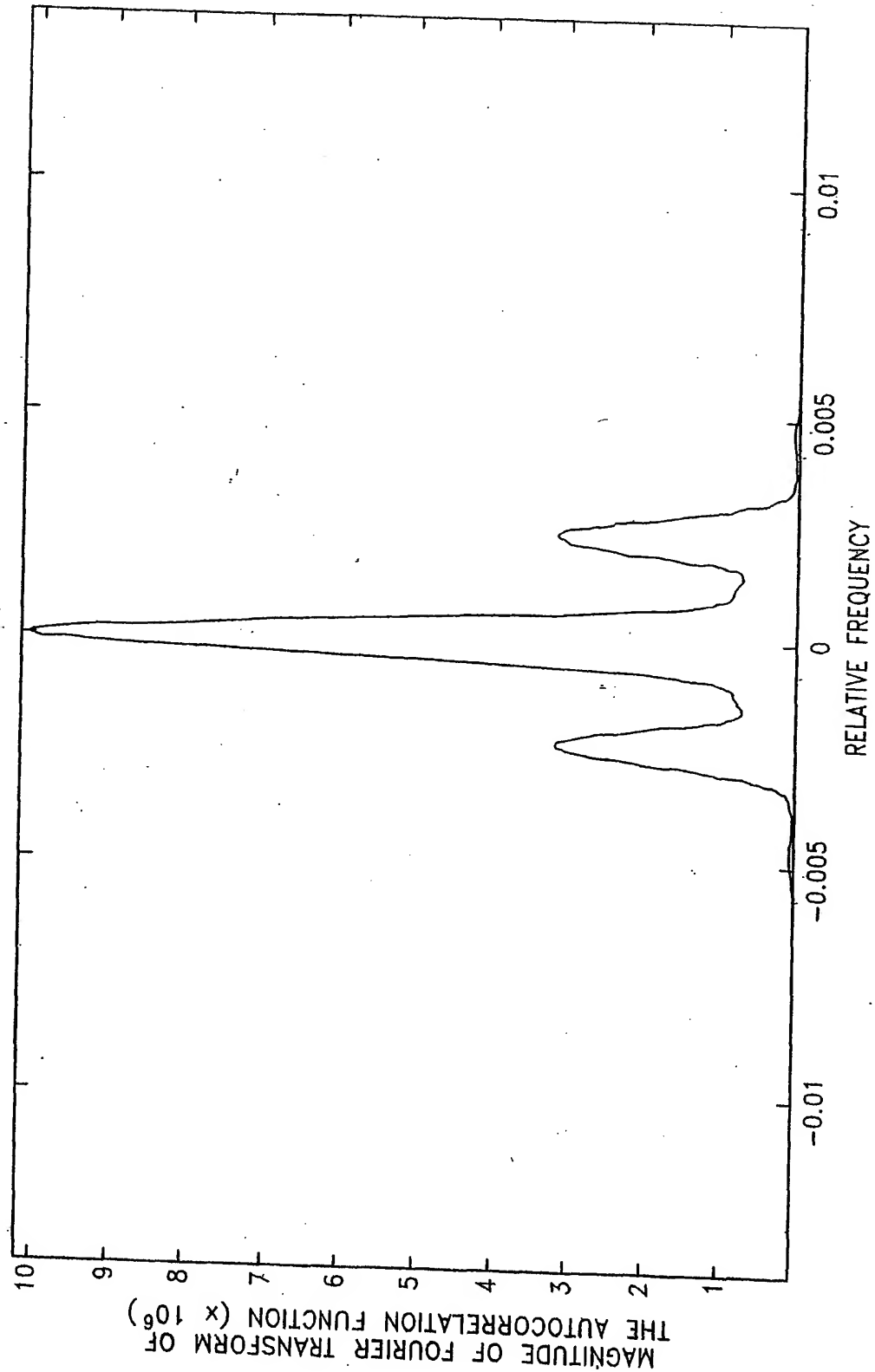


Figure 27

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

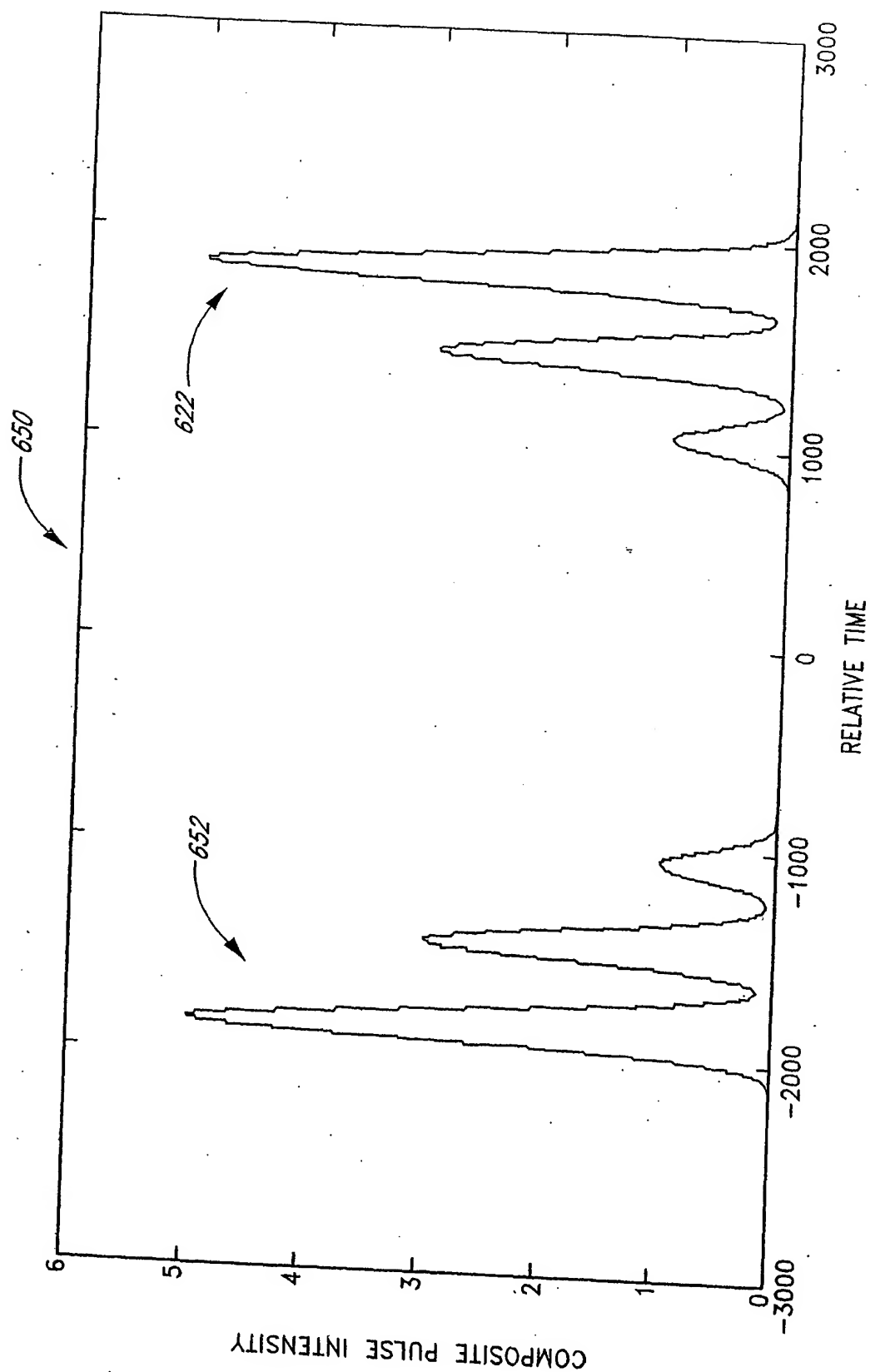


Figure 28

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

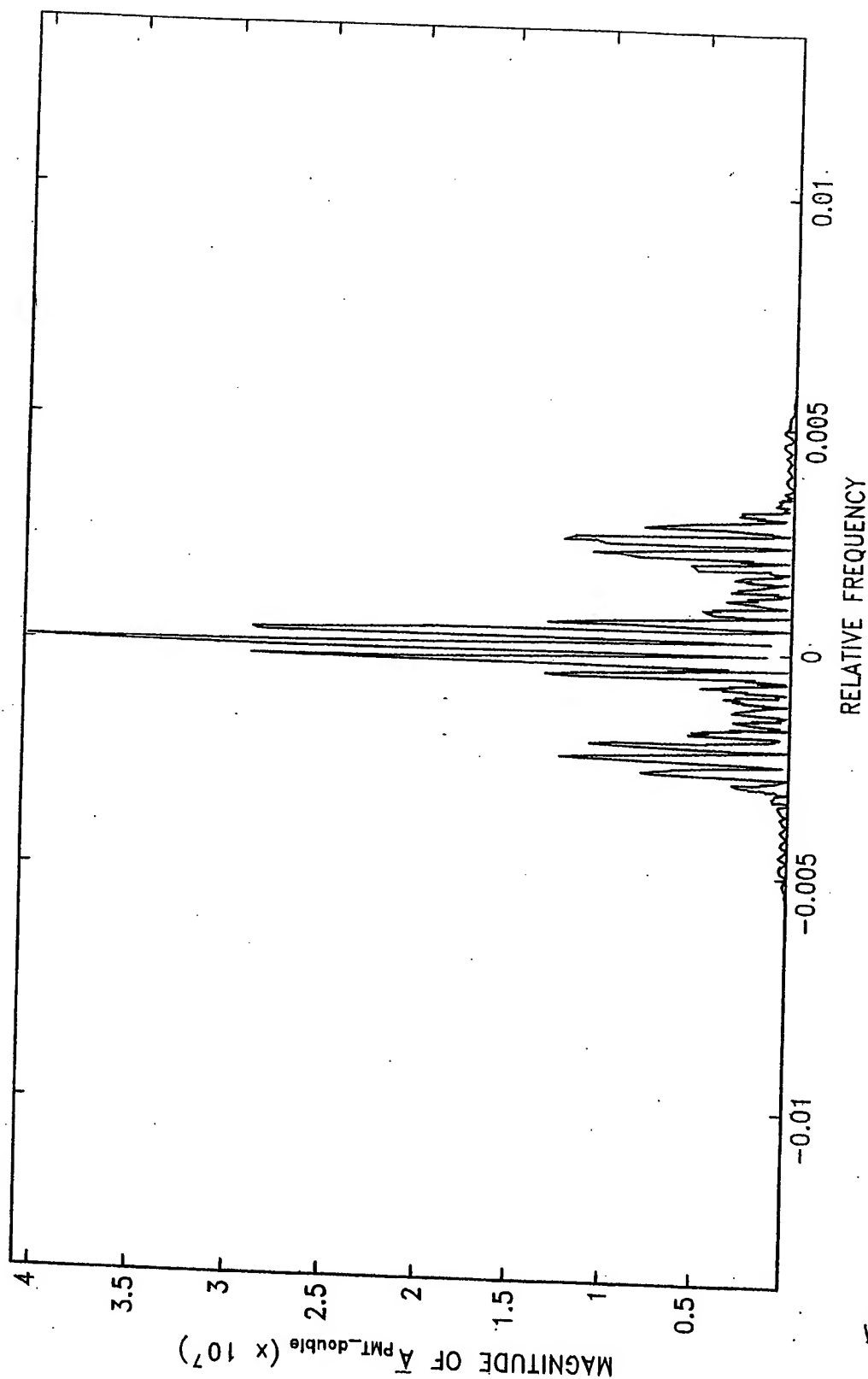


Figure 29

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

Figure 30A:

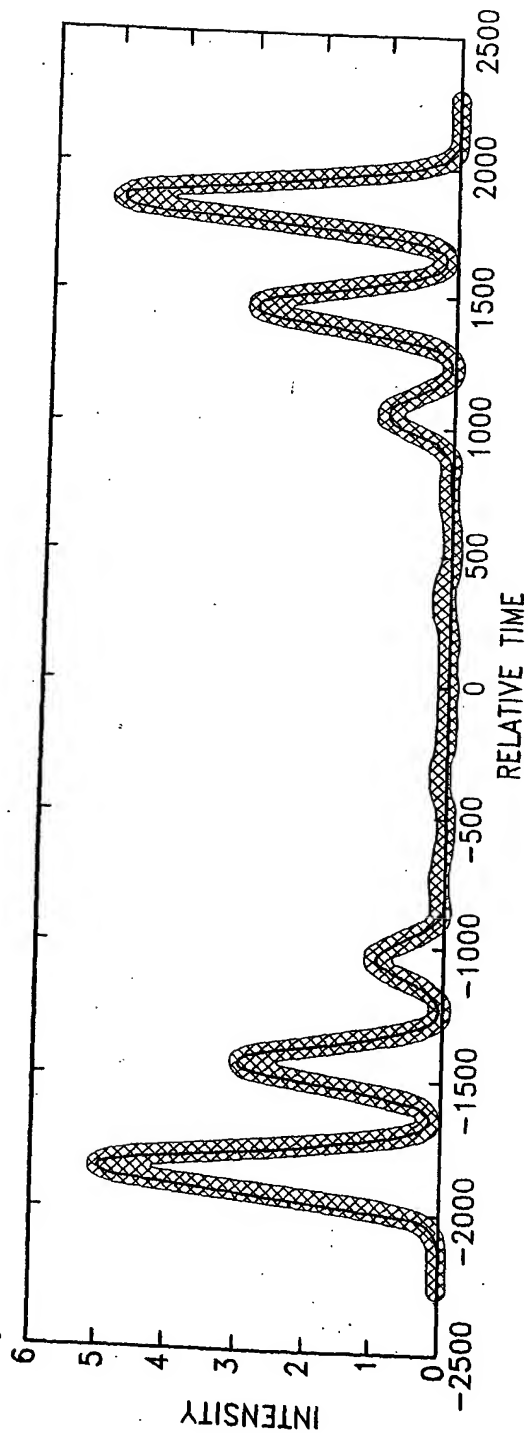
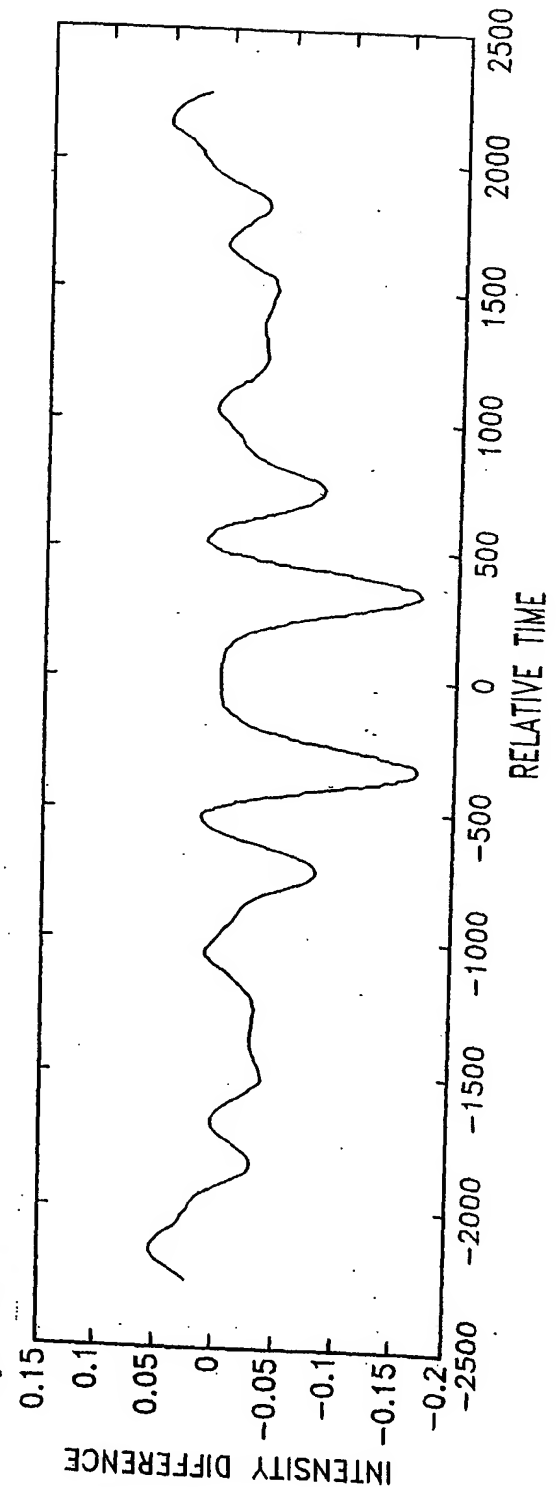


Figure 30B:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

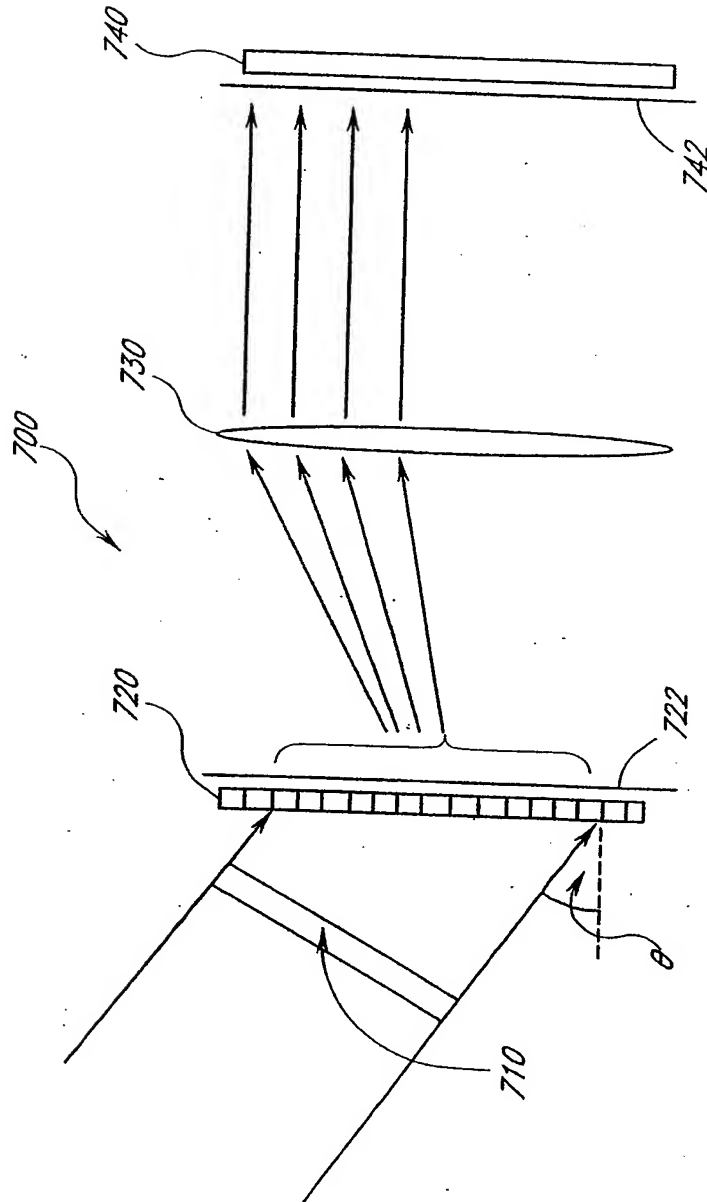


Figure 31

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

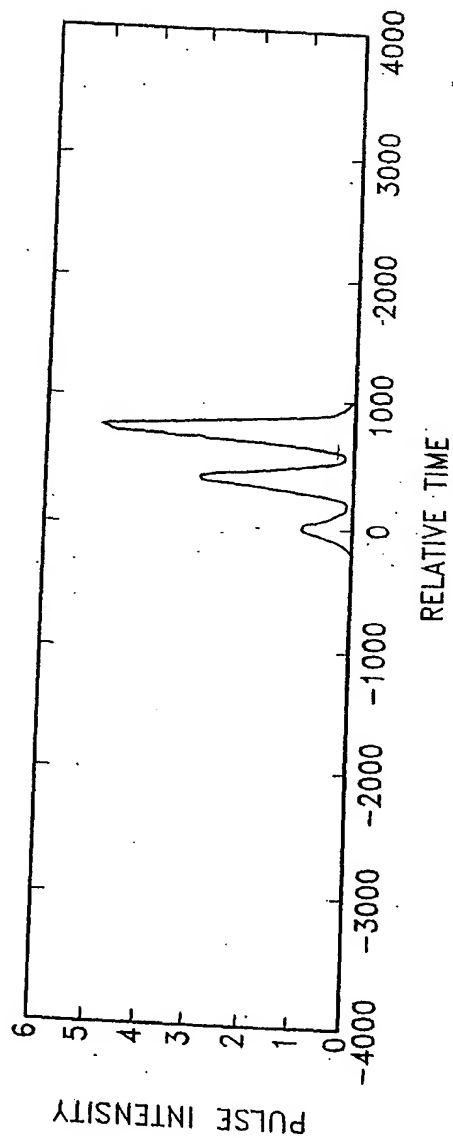


Figure 32A

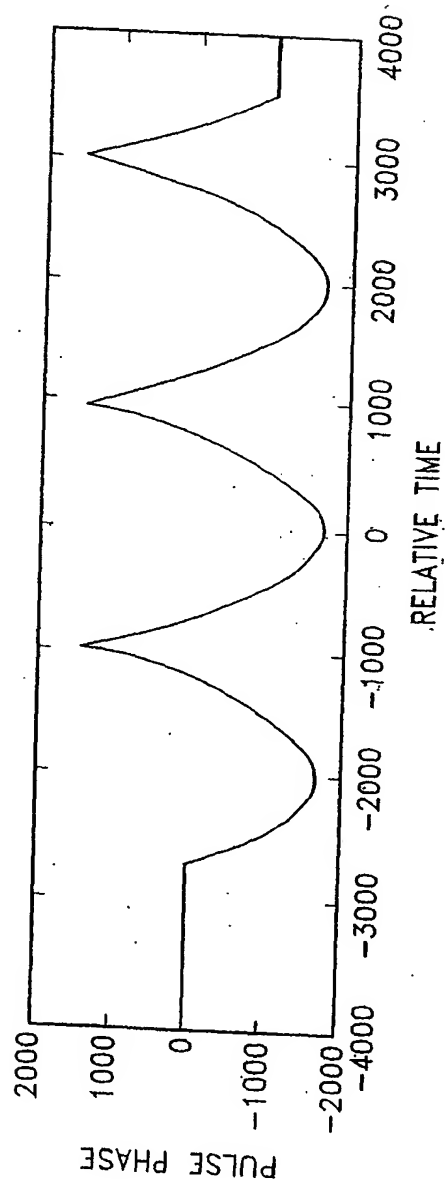


Figure 32B



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

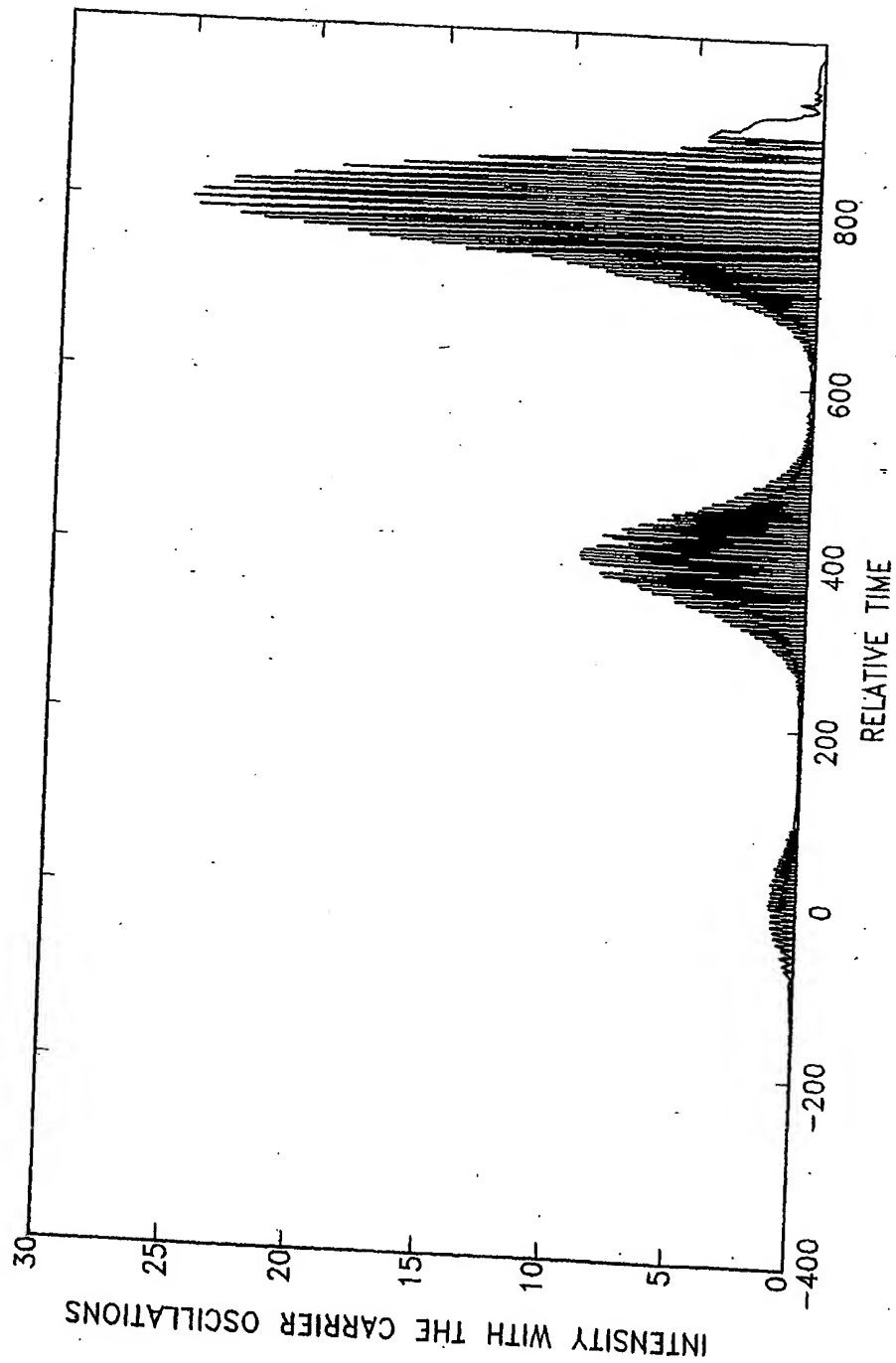


Figure 33

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

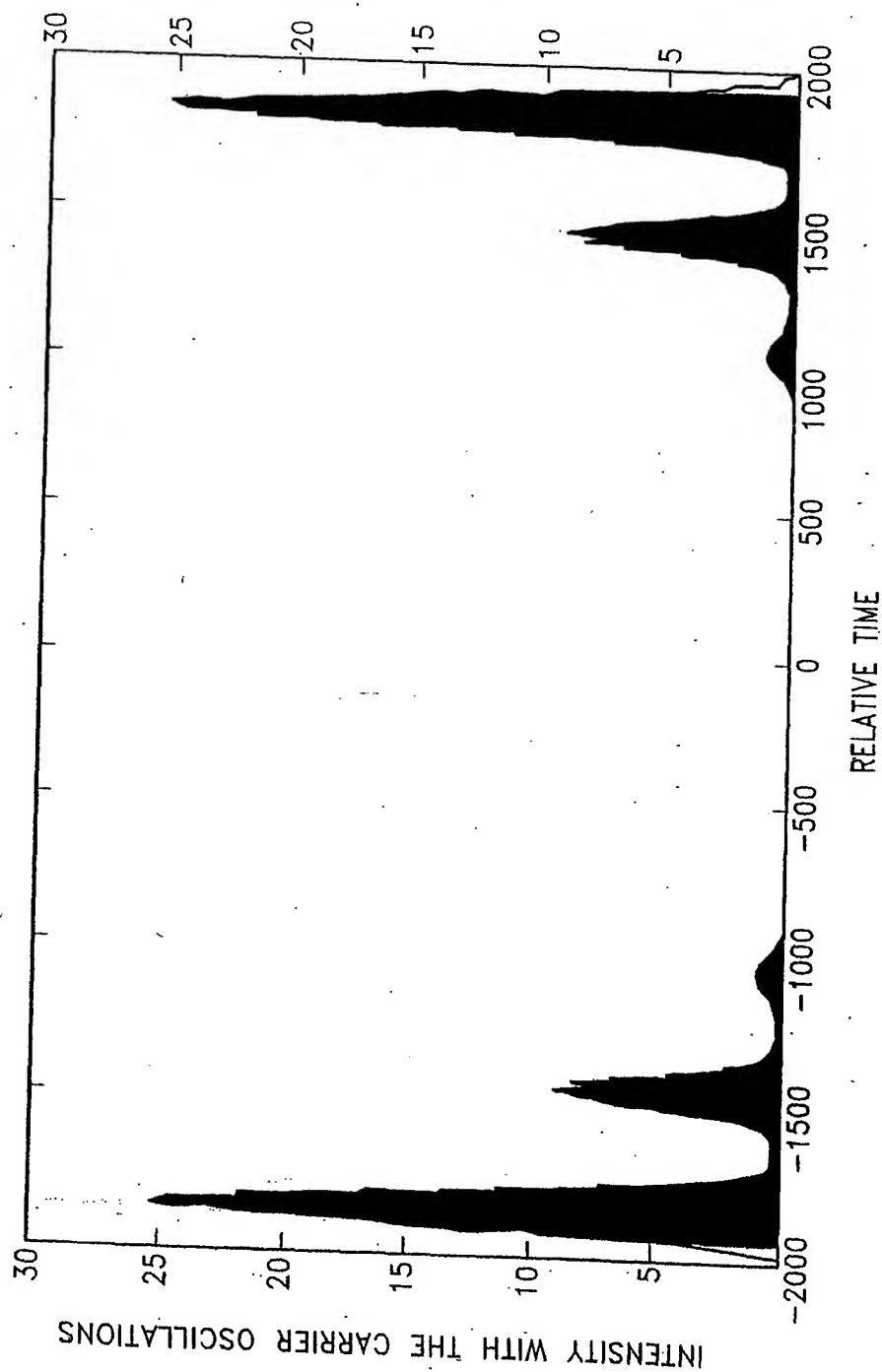


Figure 34

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

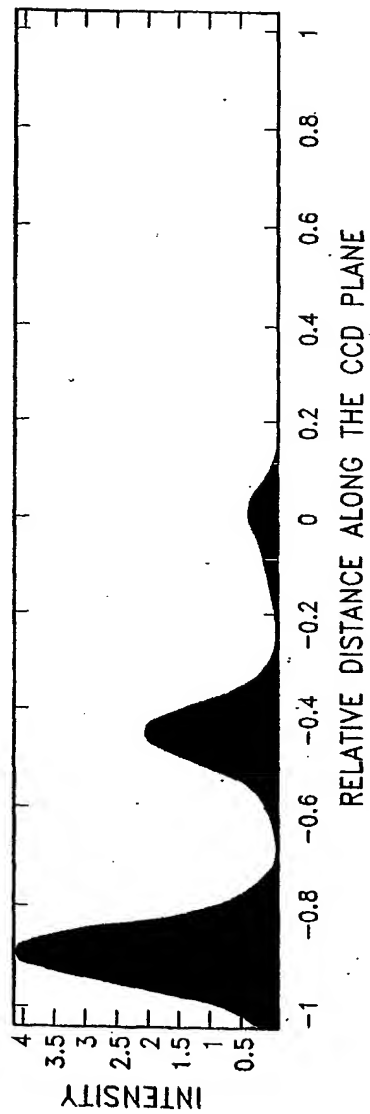


Figure 35A

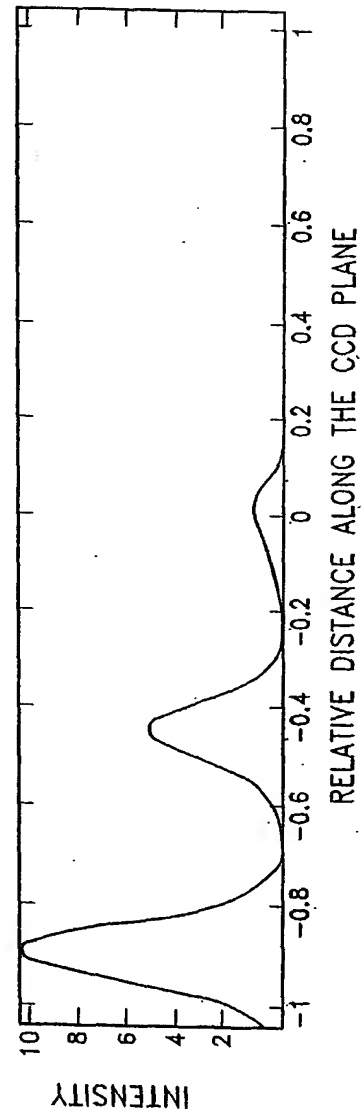


Figure 35B

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

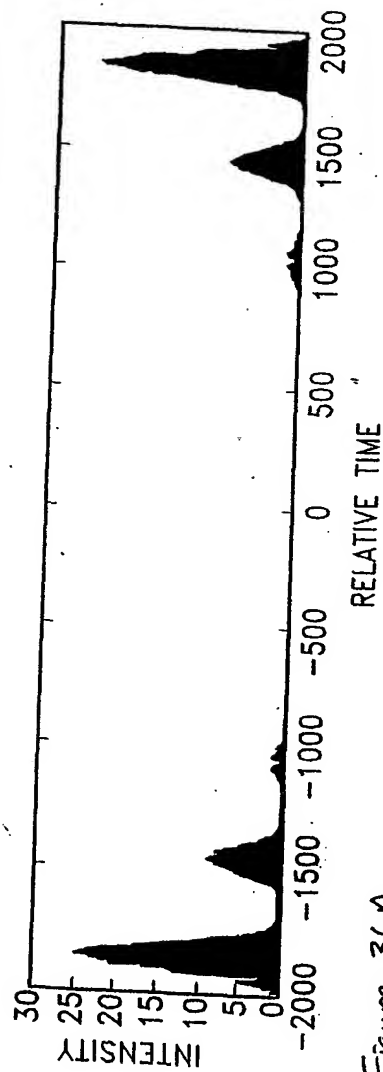


Figure 36A

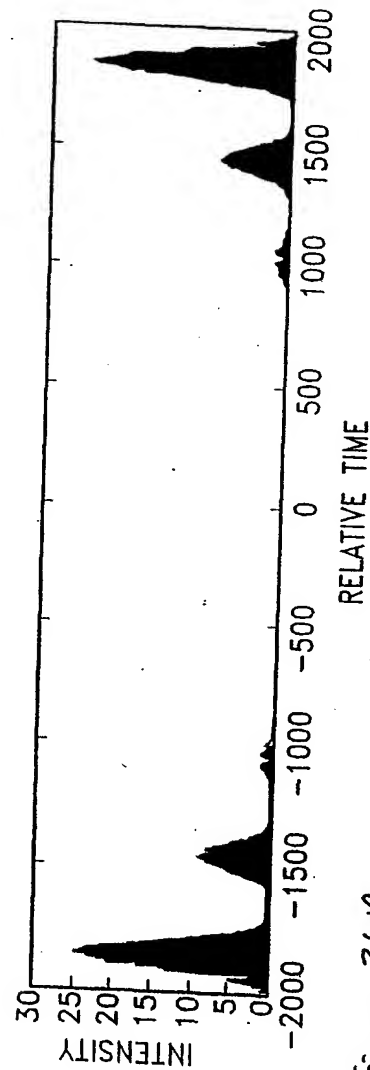


Figure 36B

METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

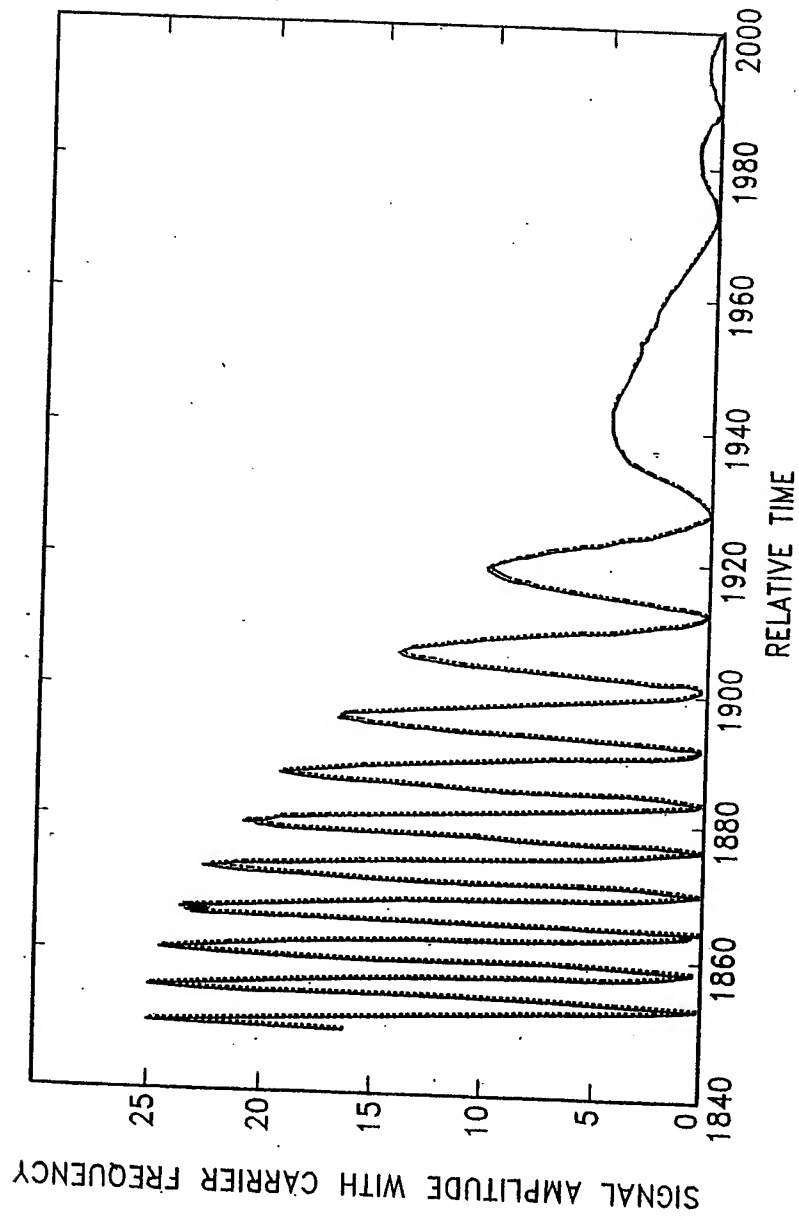


Figure 37

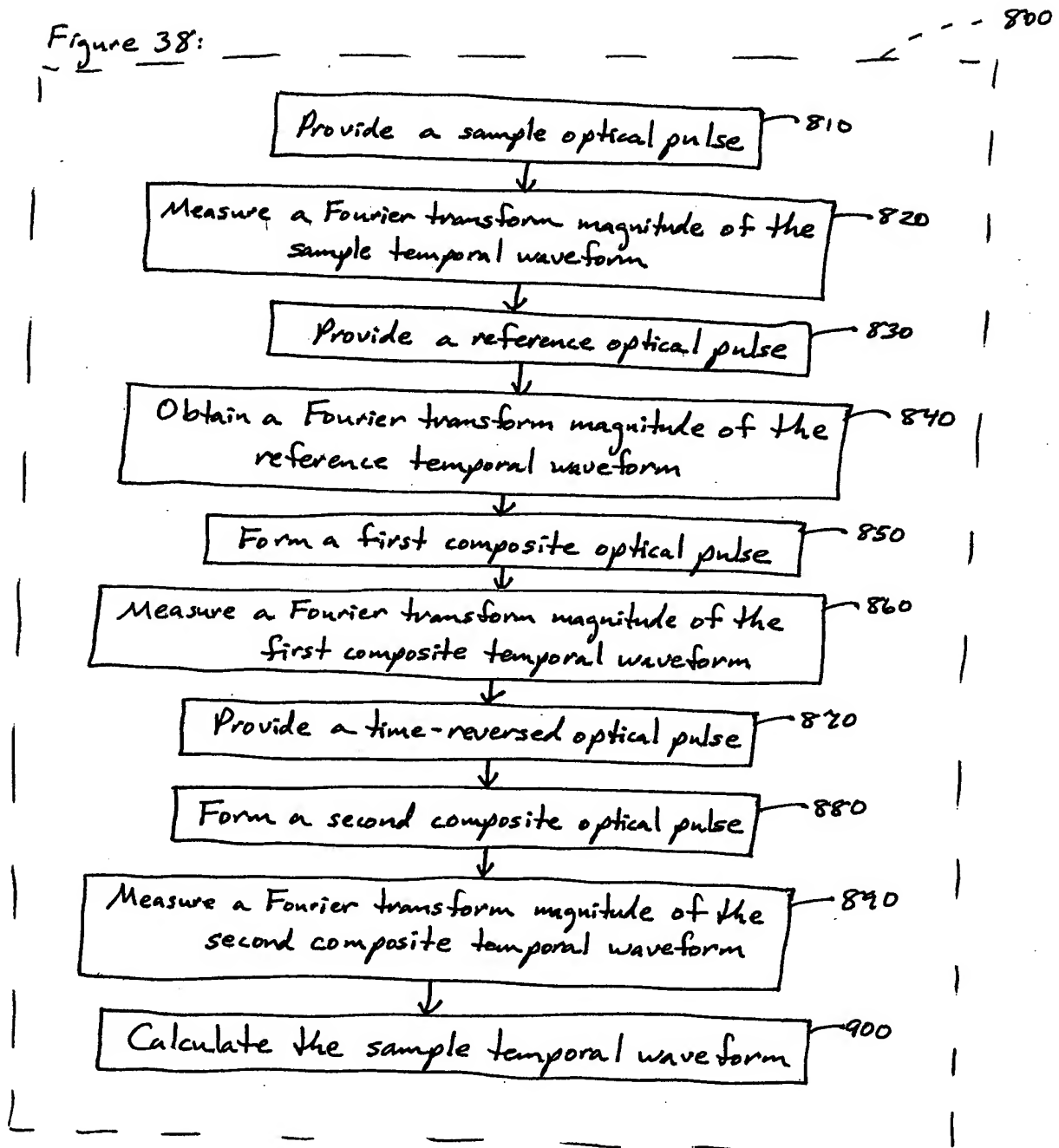
METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown

Atty Docket: STANF.131CP2

Figure 38:



METHOD OF MEASURING A PHYSICAL FUNCTION USING A  
COMPOSITE FUNCTION WHICH INCLUDES THE PHYSICAL  
FUNCTION AND AN ARBITRARY REFERENCE FUNCTION

Aydogan Ozcan et al.

Appl. No.: Unknown Atty Docket: STANF.131CP2

Figure 39:

